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GUIDELINES FOR USING TSALE
COMPUTER PROGRAM

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FOREST MANAGEMENT DIVISION

Timber Sale Management System

The Forest Management Division (FMD) of the Department of Natural Resources (DNR) manages the sale of timber from the State Forests in Michigan. The new timber sale management system has been designed to automate and integrate various timber sale functions including proposals, contracts, amendments, receipts, bonds and completion details.

The new timber sale management system provides for the following features:

- A central database for all of the timber sale data on the IBM-3090 mainframe at DNR, Lansing
- An integrated timber sale management system on PC for area offices
- On-line update and query facility
- Standard and ad-hoc reports on PC and mainframe
- Relational database on PC and mainframe
- Electronic data transfer (floppy, MERIT network) between PC and mainframe

The following sections provide instructions for the PC program (Tsale) users in the area offices.

Timber Sale Management System

Installation Instructions

Before Installing Timber Sale Program:

- Install R:BASE
Follow the procedures outlined in R:BASE installation guide.
- Select your printer during R:BASE installation and set width to 132.

Installing Timber Sale Program:

- From 'C:' prompt, enter 'A:\INSTALL'. (Use 'B:\INSTALL' if the installation diskette is in drive B.)
- This program copies all Timber Sale System files into the directories selected and during that process it may overwrite existing files in those directories. Therefore, the new system should be installed on a new, or existing but bland, directory. The installation warns users by displaying:

'Warning: This program may erase some existing files'.

The installation program would ask you to enter the directory names for:

1. Executable file directory - Default is 'C:\Timber'.
2. Standard files directory - Default is 'C\Timber'.
3. Data file directory - Default is 'C\TIMBER/DATA'.

The installation program would ask you to enter:

1. Area Code
2. Starting Number for Receipts: Default is '2 digit Area Code + 6 digit serial number'.

- The installation program would ask for a confirmation of all choices made by you. If you have made any errors, you can cancel installation by entering 'Escape' at this stage.

- The complete Timber Sale system is on 8 diskettes (Numbered 1 through 8). The installation program would prompt you to enter diskettes and then the program would copy files from the diskettes.

- After installation is completed, the programs can be run by entering:
 - TSALE - Run Timber Sale System
 - REPORTS - Run R:BASE reports.
- Enter 'TSALE' to run the Timber Sale System. As the last step before starting regular use of this program, please select correct printer using the configuration screen on this system.

If you have installed the program on Drive C, at the C Prompt type Tsale and press return. The following main menu will appear.

MDNR - Timber Sale Management System

- | | |
|---------------------------------|--------------------------------|
| 1: Pick a Sale. | A: Edit Sale Contract. |
| 2: Edit/Enter Cruise Data. | B: Contract Completion. |
| 3: Product & Species. | C: Contract Amendment Details. |
| 4: Statistics. | D: Enter Receipt information. |
| 5: Edit Appraisal & Bid Values. | E: Sale Inquiry. |
| 6: Edit Cutting Specs. | F: Purchaser Name Inquiry. |
| 7: Edit Visual Impact Form. | G: Edit Purchaser Details. |
| 8: Edit Sale Proposal. | H: Edit Forest Area Details. |
| 9: Stand Information Update. | I: Bond Details. |
| P: Printing Options. | X: eXit to DOS. |
| 0: Program Configuration | Quit TMBRSale. |

Pick, Create, or Delete a timber sale.

Main Menu

Enter one of the following options:

- | | | | |
|----|-------------------------------|---|---|
| 1. | Pick a Sale | - | Add, delete, or select a sale. |
| 2. | Edit/Enter Cruise Data | - | Add, change, delete and view cruise data. |
| 3. | Product and Species | - | Add, change, delete and view species and product data. |
| 4. | Statistics | - | View / Change sale and stand statistics. |
| 5. | Edit Appraisal and Bid values | - | Add, change, delete and view appraisal data and bid values. |
| 6. | Edit Cutting Specifications | - | Add, change, delete and view cutting specifications. |
| 7. | Edit Visual Impact Form | - | Add, change, delete and view visual impact data. |
| 8. | Edit Sale Proposal | - | Add, change, delete and view sale and proposal data. |
| 9. | Stand Information Update | - | Add, change, delete and view stand data. |
| A. | Edit Sale Contract | - | Add, change, delete and view contract data. |
| B. | Contract Completion | - | Add, change, delete and view contract completion data. |
| C. | Contract Amendment Details | - | Add, change, delete and view contract amendment data. |
| D. | Enter Receipt Information. | - | Add, change, view and print receipt data. |
| E. | Sale Inquiry | - | View sale summary data. |
| F. | Purchaser Name Inquiry | - | View an alphabetical list of purchasers. |
| G. | Edit Purchaser Details | - | Add, change, delete and view purchaser data. |
| H. | Edit Forest Area Details | - | Add, change, delete and view forest area name and address data. |
| I. | Bond Details | - | Add, change, delete and view bond data. |

- O. Program Configuration - Select display colors, printers, and data directory.
- P. Printing Options - Print Proposals, Contracts, Amendments, Completions etc.
- X. Exit to dos - Exit to DOS. To return to Timber Sale program type 'Exit' and press enter.
- Q. Quit - Terminate program.

The following is printing options menu:

TIMBER4

MDNR - Timber Sale Management System
62-099-90-01 : TRAIL HEAD ASPEN

Date: 08/12/1992
Time: 11:45

Printing Options

- 1: Print Sale Proposal.
- 1: 2: Print Sale Contract.
- 2: 3: Print Cutting Specs. for Proposal
- 3: 4: Print Cutting Specs. and General Conditions.
- 4: 5: Print Appraisal.
- 5: 6: Print Visual Impact Form.
- 6: 7: Print Product Summary.
- 8: Print Statistics.
- 9: List Data Entered.
- 9: A: Average Heights and Diameters
- B: Print Contract Amendment.
- P: C: Contract Completion Report.
- O: R: Return to main menu.

Print Sale Proposal.

Summary Reports Menu:

In order to print summary reports, Exit from Tsale and type "Reports", the following menu will show the various summary report you can generate.

Reports 10-20 Reports 21-31 Exit DOS RBASE

Extract Volume Data For Reports

10. Volume and Value for Reports
11. Volume & Acres by Method of Cut & Cover Type
12. Sales by Purchaser
13. Numerical Listing of Contracts
15. Completed Sales
16. Expired Contracts
17. Summary of Receipts
18. Completed Sales by Method of Cut
19. Bond Listing
20. Receipts by Type of Sale

Press right arrow to see Reports 21-31

21. Summary of Revenue
22. Volume Prepared by Entry Year
23. Purchaser Name and Address
24. Receipts and Credits by Sale
25. Sale Document Summary
26. Payment Status on Active Contracts
27. Proposal Summary
28. Receipts by County
29. Revenue by Type of Receipt
30. Bond Disposition
31. Summary of Sales

These are R-base Reports. Press Exit and type Tsale to return back to the Tsale program.

MDNR - Timber Sale Management System

Sale Selection Options

- | | | |
|---------------------------------|------------------------------|--|
| 1: Pick a Sale From a List. | | |
| 2: Create a New Sale. | | |
| 3: Delete a Sale From a List. | | |
| 4: Return to Main Menu | | |
| 5: Edit Appraisal & Bid Values. | E: Sale Inquiry. | |
| 6: Edit Cutting Specs. | F: Purchaser Name Inquiry. | |
| 7: Edit Visual Impact Form. | G: Edit Purchaser Details. | |
| 8: Edit Sale Proposal. | H: Edit Forest Area Details. | |
| 9: Stand Information Update. | I: Bond Details. | |
| P: Printing Options. | X: eXit to DOS. | |
| O: Program Configuration | Quit TMBRSale. | |

ract.
etion.
ment Details.
information.

Choose a sale from a list of all sales.

= =Scroll

Pick a Sale: Sale Selection Options

Enter one of the following options:

- | | | |
|------------------------------|---|--|
| 1. Pick a Sale from a List | - | Pick a sale from the list of existing sales on the system. |
| 2. Create a New Sale | - | Create a new sale. |
| 3. Delete a Sale from a List | - | Delete a sale from the list of existing sales on the system. |
| 4. Return to Main Menu | - | Return to main menu. |

MDNR - Timber Sale Management System
Create a new Sale

Date: 05/08/1992
Time: 08:59

Sale XXXXXXXXX
Sale No.
Year XX Sale Type XX
Area XX XXXXXXXXXXXXXXXXXXXXXXXXXXXX
Name XXXXXXXXXXXXXXXXXXXXXXXXXXXX
Log Rule X XXXXXXXXX
Top DIB XX

F9 - Exit, F10 - Save and Exit

Create a New Sale

This screen is used for creating a new sale on the system. The entry requirements for some of the fields are listed below:

- Sale Number - Enter a new sale number or let the system select a sale number by leaving sale number field blank.
- Sale Year - Enter the sale year.
- Sale Type - Enter sale type (default sale type is '01').
- Area - The area code selected during the installation of this program is used as the default area code for all sales in the area and the users are not permitted to change this area code.
- Log Rule - Enter the Log rule - International (I) or Scribner (S).
- Top DIB - Enter 08 or 10 for the Top DIB.

Note: The values entered on this screen can not be changed after the sale is created. If any changes are required, delete the sale using delete sale screen and create a new sale.

MDNR - Timber Sale Management System
Pick a Sale

Date: 05/08/1992
Time: 09:00

Enter Sale #: _____

	Sale Number	Sale Name
-	_____	_____
-	_____	_____
-	_____	_____
-	_____	_____
-	_____	_____
-	_____	_____
-	_____	_____
-	_____	_____
-	_____	_____
-	_____	_____
-	_____	_____
-	_____	_____

F9 - Exit, F10 - Pick the sale
PgUp - Prev Page, PgDn - Next Page, Home - First Page, End - Last Page

Pick a Sale

This screen is used for selecting a sale from the list of existing sales on the system. Press enter to get a complete list of all sales on the system. A specific sale number can be entered as the starting point for this list of sales.

- Up Arrow - Move up one row.
- Down Arrow - Move down one row.
- PgUP - Go to Previous Page.
- PgDn - Go to Next Page.
- Home - Go to First Page.
- End - Go to Last Page.
- F9 - Exit
- F10 - Select a sale.

MDNR - Timber Sale Management System
Delete a Sale

Date: 05/08/1992
Time: 09:00

Enter Sale #: _____

Sale Number	Sale Name
- _____	_____
- _____	_____
- _____	_____
- _____	_____
- _____	_____
- _____	_____
- _____	_____
- _____	_____
- _____	_____
- _____	_____
- _____	_____
- _____	_____

F9 - Exit, F10 - Delete the sale

PgUp - Prev Page, PgDn - Next Page, Home - First Page, End - Last Page

Delete a Sale

This screen is used for selecting and deleting a sale from the list of existing sales on the system. Press enter to get a complete list of all sales on the system. A specific sale number can be entered as the starting point for this list of sales.

- | | | |
|------------|---|-------------------------|
| Up Arrow | - | Move up one row. |
| Down Arrow | - | Move down one row. |
| PgUP | - | Go to Previous Page. |
| PgDn | - | Go to Next Page. |
| Home | - | Go to First Page. |
| End | - | Go to Last Page. |
| F9 | - | Exit |
| F10 | - | Select and delete sale. |

MDNR - Timber Sale Management System

Data Entry Options

- | | | |
|------------------------------|----------------------------------|---------------|
| 1: Pick a Sale | 1: Edit/Create Cumulative Tally. | ract. |
| 2: Edit/Enter | 2: Edit/Create V - Bar Tally. | etion. |
| 3: Product & | 3: Edit/Create Marking Tally. | ment Details. |
| 4: Statistics | | information. |
| 5: Edit Appra | 4: Return to Main Menu | |
| 6: Edit Cutti | | Inquiry. |
| 7: Edit Visual Impact Form. | G: Edit Purchaser Details. | |
| 8: Edit Sale Proposal. | H: Edit Forest Area Details. | |
| 9: Stand Information Update. | I: Bond Details. | |
| P: Printing Options. | X: eXit to DOS. | |
| O: Program Configuration | Quit TMBSALE. | |

= =Scroll

Edit / Enter Cruise Data: Data Entry Options

Enter one of the following options:

- | | | | |
|----|--------------------------------|---|--|
| 1. | Edit / Create Cumulative Tally | - | Add, change, delete or view cumulative tally data. |
| 2. | Edit / Create V-Bar Tally | - | Add, change, delete or view V-Bar tally data. |
| 3. | Edit/ Create Marking Tally | - | Add, change, delete or view Marking Tally data. |
| 4. | Return to Main Menu | - | Return to main menu. |

Edit/Create Cumulative Tally (See Example 1 and 2): You are required to enter the total number of trees and sticks of pulpwood and/or sawtimber trees by species for each point. You must also enter the number of sawtimber trees and logs (sticks or half-logs). If there are no sawtimber trees, leave the appropriate fields blank or zero. If there are only sawtimber trees and sticks, the total number of trees and sticks is the same as the number of sawtimber trees and sticks. After entering the last line of data, you will be prompted for another line of data. Follow instructions at the bottom of the screen. If the sale consists of more than one stand and/or stratum, indicate on the first new line of data the stand number. This will move the cursor to the top of the tally sheet. You can now enter the new stand number, stratum number, and acreage. The stratum number may remain the same or be different. Use this method for sales with 90% or more of the volume is pulpwood:

Edit/Create V-Bar Tally (See Example 3): You are required to enter the number of pulpwood sticks and the number of sawtimber logs (sticks or half-logs) and number of trees for each combination of number of pulpwood sticks and number of sawtimber logs by species for each point. Be sure that the number of sticks and the number of 8-foot logs for a given line of input are on a per tree basis. The program will multiply the number of trees on this line times the number of sticks and logs to yield the cumulative results. Do NOT put in the cumulative number of sticks and logs for the number of trees on a given line. Use product codes 1 or 6 if you tally only sawtimber trees and want board feet or cord volumes, respectively. Use Product Code 1 if you tally trees with sawtimber and residual pulpwood volume and you want cord volumes for pulpwood and board feet volumes for sawtimber. Use Product Code 6 if you tally only pulpwood trees or trees with sawtimber and residual pulpwood and you want cord volume. If the number of pulpwood sticks or number of sawtimber logs (half-logs) is zero, you may leave the appropriate field blank. After entering the last line of data, you will be prompted for another line of data. Follow instructions at the bottom of the screen.

Edit/Create Marking Tally (See Example 4): You are required to enter the number of sawtimber logs (half-logs or sticks) or the number of pulpwood sticks and number of trees for each different number of logs or sticks for each species and DBH. Logs and sticks are on a per tree basis. You cannot enter both logs and sticks because residual pulpwood volumes are calculated as a function of the log volume (i.e., all sawtimber trees are assumed to have some residual pulpwood volume). DBH's must be even starting with 6". Minimum sawtimber DBH is 10". After entering the last line of data, you will be prompted for another line of data. Follow instructions at the bottom of the screen. The mark and tally allow to you cruise any percentage of the stand including the 100 percent cruise. The program compute the total volume using appropriate multiplying factor. For example, if you indicate that you are cruising only five percent of the stand, the volume for each tree you tally is multiplied by 20.

In the cumulative and V-Bar tally you have to indicate the compartment, stand number, the stratum, the acres and the basal are factors used. In the mark and tally you have to indicate, the compartment, stand number, the stratum and the % tallied.

OK
Remember stratum can be one for several stands. For example, if you have a sale with six stands, and all stands are aspen with no significant difference in volume/acre, all six stands are stratum 1. But if you have two stands, one is

aspen and one is red pine, the aspen can be stratum one and red pine is stratum two.

CAUTIONARY NOTES:

1. For the timber sale proposal screen, you must indicate in one single space the type of payment by typing "S" for single payment sale and "M" for a multiple payment sale. However, when the document is printed, the type of payment will be indicated by an "X" placed in the space immediately to the left of single unit or multiple unit, depending on whether you typed in "S" or "M", respectively, on the screen.
2. If you want to edit any text on any of the screens, press the Scroll Lock Key. When you are finished editing, press the Scroll Lock Key again.
3. To identify a species that will be bid on in the stumpage appraisal screen, type "Y" following the word "BID". If the species will not be bid on, type "N". In the printed timber sale proposal under the description of timber section, the bid species will be indicated by asterisks to the right of the species code.

When you designate a species as NO bid species, the program assumes that the appraised price is the same as the bid price and computes the purchase value of the species accordingly.

4. On pages 86, 87 and 88 are the suggested tally forms for the three cruising methods. These forms make it easier for you to enter the field tally data into the program.
5. The program has been revised to allow you to delete a sale. When you select the "pick a sale", there's an option to delete a sale document. This can be used when you want to delete certain sales from the files. However, if after the selection of a sale to delete you changed your mind and you want to save the sale, press "N", then F9. This will allow to return to main menu.
6. For sales with a significant portion of sawlogs and you are using point sampling, use the v-bar tally method. The cumulative tally method only gives you a rough estimate of sawlog volume.
7. There are 38 general cutting specifications included in the program. You can edit these specifications, select the ones that are used most in your area, and save them in one of your sales files so that you can use them for your other sales.
8. Editing cutting specifications is done using a small text editor program called TED. For instructions on use of TED, see page 85 of this manual.

EXAMPLE 1 - Cumulative Tally - One Stand - August 20, 1992

A sample of 2 points was taken in Stand 25 of Compartment 100 using a BAF 10 prism. The area of the stand is 40 acres. The data are as follows:

- Point 1.
- 3 aspen trees each with 4 pulpwood sticks
 - 2 aspen trees each with 2 sawtimber logs and 2 residual pulpwood sticks
 - 3 white pine trees each with 3 sawtimber logs and one residual pulpwood stick
- Point 2.
- 6 aspen trees each with 4 pulpwood sticks
 - 4 white pine trees each with 3 sawtimber sticks

The data is entered in the following format using EDIT/CREATE CUMULATIVE TALLY in TSALE (11 = aspen, 30 = white pine):

CARLTLY		MDNR - Timber Sale Management System				Date: 08/13/1992		
		Cumulative Method Data Entry				Time: 10:21		
Sale Number 620109201		Name EXAMPLE 1						
Compartment. 100		Stand 025		Stratum 001		Acres 40.0	Log Rule I	BAF 10.00
Plot	Species Code	<---Total---> Trees Sticks		<--- Log ---> Trees Sticks		Stand	MBF/Acre	Cords/Acre
001	11	05	020	02	004	025	1.364	9.58
001	30	03	012	03	009	025	3.146	1.03
002	11	06				025	0.000	15.44
002	30	04	012	04	012	025	4.194	0.00
---	---	---	---	---	---	---	---	---
---	---	---	---	---	---	---	---	---
---	---	---	---	---	---	---	---	---
---	---	---	---	---	---	---	---	---
---	---	---	---	---	---	---	---	---
---	---	---	---	---	---	---	---	---
---	---	---	---	---	---	---	---	---
---	---	---	---	---	---	---	---	---
<p>F3-InsLine, F4-DelLine, F7-Change/New Stand, F9-Quit, F10-Save PgUp-Prev, PgDn-Next, Home-Top, End-Bottom</p>								

You are prompted for information in the first 6 columns. The volumes in the last 2 are calculated from the data entered for each line.

S attached materials for results.

Edit / Create Cumulative Tally

This screen is used for entering the cumulative tally data for a sale. The data entered and saved using this screen used for calculating species and product volumes and it is directly updated to the species and product table.

- Up Arrow - Move up one row.
- Down Arrow - Move down one row.
- PgUP - Go to Previous Page.
- PgDn - Go to Next Page.
- Home - Go to Top.
- End - Go to Bottom.
- F3 - Insert a line for data entry.
- F4 - Delete line.
- F7 - Change stand number for data entry or view.
- F9 - Exit
- F10 - Save data entered.

Tree Data Listing

Timber Sale Number: 62-010-92-01
 Hard feet are Int. 1/4 to 08" variable top.
 --- Cumulative Portion of Cruise ---

Printed: 08/13/1992

Sticks refers to pulp and sawlogs.
 Logs to sawlogs only.

Plot	Spp.	--- Total --- Trees	--- Log --- Sticks	--- Per Acre --- Trees	--- Per Acre --- Sticks	MBF	Cords

Stand: 025	Stratum: 001	Acres: 40.00	BAF: 10.00				
1	11	5	20	2	4	1.364	9.58
1	30	3	12	3	9	3.146	1.03
2	11	6	24	0	0	0.000	15.44
2	30	4	12	4	12	4.194	0.00

--- Summary of Cumulative Cruise Data ---

Species	Avg. # Sticks	Avg. # 8' Logs

Q. ASPEN	4.0	2.0
WHITE PINE	3.4	3.0
Composite	3.8	2.8

TMBRSAL 08/13/1992 10:35

Stand Volume Sampling Report

Timber Sale Number: 62-010-92-01

Printed: 08/13/1992

Stand	Acres	Avg. B/A	Mean Cords/Acre	Standard Deviation	Coeff. of Variation	Achieved Error	Num. Points

25	40.00	90.00	22.28	2.48	11.15	15.77	2

Stratified Sampling Report

Timber Sale Number: 62-010-92-01

Stratum	Acres	Mean Cords/Acre	Standard Deviation	Coeff. of Variation	Achieved Error	Num. Points

1	40.00	22.28	2.48	11.15	15.77	2

Sampling Summary

Mean Cds/Acre: 22.28
 Variance: 6.17
 Std. Dev.: 2.48
 Coefficient of Var: 11.15
 Stratified Ach. Err.: 15.77

TMBRSAL 08/13/1992 10:35

DESCRIPTION OF TIMBER

Timber Sale Number: 62-010-92-01

Printed: 08/13/1992

Species	Code	Product	Code	Pole Circumf.	Units	Code	Amount
Q. ASPEN	11	SAWLOGS	01		MBF	01	27.274
WHITE PINE	30	SAWLOGS	01		MBF	01	146.801
Q. ASPEN	11	PULPWOOD	02		Cords	02	500.24
WHITE PINE	30	PULPWOOD	02		Cords	02	20.62

Total MBF: 174.075 Including utility poles, if any.
Board feet are Int. 1/4 to 08" variable top.

Total CORDS - Pulp : 520.85

TMBSALE 08/13/1992 10:35

DESCRIPTION OF TIMBER by Stand

Timber Sale Number: 62-010-92-01

Printed: 08/13/1992

Species	Code	Product	Code	Pole Circumf.	Units	Code	Amount
STAND = 025 Acreage = 40.0							
Q. ASPEN	11	SAWLOGS	01		MBF	01	27.274
WHITE PINE	30	SAWLOGS	01		MBF	01	146.801
Q. ASPEN	11	PULPWOOD	02		Cords	02	500.24
WHITE PINE	30	PULPWOOD	02		Cords	02	20.62

Total MBF: 174.075 Including utility poles, if any.
Board feet are Int. 1/4 to 08" variable top.

Total CORDS - Pulp : 520.85

TMBSALE 08/13/1992 10:35

EXAMPLE 2 - V-Bar Tally - January 5, 1991 (Sale #63-011-90-1)

A sample of 2 points was taken in Stand 26 using a BAF 10 prism. The area of the stand is 50 acres. The data are as follows:

- Point 1. •2 aspen trees each with 4 pulpwood sticks
 •2 aspen trees each with 2 residual pulpwood and
 2 sawtimber logs
 •4 white pine trees each with 3 sawtimber logs
- Point 2. •3 aspen trees each with 2 pulpwood sticks
 •2 aspen trees each with 3 pulpwood sticks
 •4 white pine trees with 2 sawtimber logs
 •1 white pine tree with 1 residual pulpwood stick and
 2 sawtimber logs

You want cord volumes for pulpwood and International $\frac{1}{4}$ -inch board-foot volumes for sawtimber.

The data is entered in the following format using EDIT/CREATE V-BAR TALLY in Tsale (11 = Aspen, 30 = White Pine).

VBARTLY		MDNR - Timber Sale Management System					Date: 08/13/1992	
		V-Bar Data Entry					Time: 10:46	
Sale Number 620119201		Name EXAMPLE 2						
Compartment 100	Stand 026	Stratum 001	Acres 50.0	Log Rule I	BAF 10.00			
Plot	Species Code	Sticks	Logs	Product Code	Num of Trees	Stand	MBF/Acre	Cords/Acre
001	11	04	—	06	02	026	0.000	5.24
001	11	02	02	01	02	026	1.400	1.81
001	30	—	03	01	04	026	4.219	0.00
002	11	02	—	06	03	026	0.000	4.77
002	11	03	—	06	02	026	0.000	4.32
002	30	—	02	01	04	026	3.014	0.00
002	30	01	02	01	01	026	0.754	0.52
—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—

F3-InsLine, F4-DelLine, F7-New Stand, F9-Quit, F10-Save
 PgUp-Prev, PgDn-Next, Home-Top, End-Bottom

You are prompted for information in the first 6 columns. The volumes in the last 2 columns are calculated from the data entered for each line.

See attached materials for results.

Tree Data Listing

Timber Sale Number: 62-011-92-01
 Board feet are Int. 1/4 to 08" variable top.
 --- V-Bar Portion of Cruise ---

Printed: 08/13/1992

Plot	Spp.	Sticks	Logs	Product Code	Trees	MBF	Per Acre Cords

Stand:	26	Stratum:	1	Acres:	50.00	BAF:	10.00
001	011	004	000	06	002	0.000	5.24
001	011	002	002	01	002	1.400	1.81
001	030	000	003	01	004	4.219	0.00
002	011	002	000	06	003	0.000	4.77
002	011	003	000	06	002	0.000	4.32
002	030	000	002	01	004	3.014	0.00
002	030	001	002	01	001	0.754	0.52

--- Summary of V-Bar Cruise Data ---

Species	Avg. # Sticks	Avg. # 8' Logs

Q. ASPEN	2.7	2.0
WHITE PINE	1.0	2.4
Composite	2.5	2.4

TMBRSAL 08/13/1992 10:57

Stand Volume Sampling Report

Timber Sale Number: 62-011-92-01

Printed: 08/13/1992

Stand	Acres	Avg. B/A	Mean Cords/Acre	Standard Deviation	Coeff. of Variation	Achieved Error	Num. Points

26	50.00	90.00	18.88	0.96	5.09	7.20	2

Stratified Sampling Report

Timber Sale Number: 62-011-92-01

Stratum	Acres	Mean Cords/Acre	Standard Deviation	Coeff. of Variation	Achieved Error	Num. Points

1	50.00	18.88	0.96	5.09	7.20	2

Sampling Summary

Mean Cds/Acre: 18.88
 Variance: 0.92
 Std. Dev.: 0.96
 Coefficient of Var: 5.09
 Stratified Ach. Err.: 7.20

TMBRSAL 08/13/1992 10:57

Edit / Create V-BAR Tally

This screen is used for entering the V-Bar tally data for a sale. The data entered and saved using this screen used for calculating species and product volumes and it is directly updated to the species and product table.

- | | | |
|------------|---|---|
| Up Arrow | - | Move up one row. |
| Down Arrow | - | Move down one row. |
| PgUP | - | Go to Previous Page. |
| PgDn | - | Go to Next Page. |
| Home | - | Go to Top. |
| End | - | Go to Bottom. |
| F3 | - | Insert a line for data entry. |
| F4 | - | Delete line. |
| F7 | - | Change stand number for data entry or view. |
| F9 | - | Exit |
| F10 | - | Save data entered. |

DESCRIPTION OF TIMBER

Timber Sale Number: 62-011-92-01

Printed: 08/13/1992

Species	Code	Product	Code	Pole Circumf.	Units	Code	Amount
Q. ASPEN	11	SAWLOGS	01		MBF	01	35.012
WHITE PINE	30	SAWLOGS	01		MBF	01	199.678
Q. ASPEN	11	PULPWOOD	02		Cords	02	403.51
WHITE PINE	30	PULPWOOD	02		Cords	02	12.94

Total MBF: 234.690 Including utility poles, if any.
Board feet are Int. 1/4 to 08" variable top.

Total CORDS - Pulp : 416.45

TMBRSAL 08/13/1992 10:57

Modifications Made to Marking Tally Cruise

Cruise data entry from marking tally(cruise method) needs some clarification. In this method trees are tallied as either sawlog or pulpwood, but not both. For sawlog trees, the topwood is computed automatically by using a ratio of residual topwood to the total sawlog volume. The ratio gives an estimate of the topwood volume from the specified log rule's top diameter(8 or 10 inches DIB) to 4 inches top diameter for pulpwood.

If a sawlog tree has three sticks and two of them, because of quality are pulpwood. The current TSALE Program only allows entry of the one sawlog stick, the volume of the two extra pulpwood sticks are not included in the cruise.

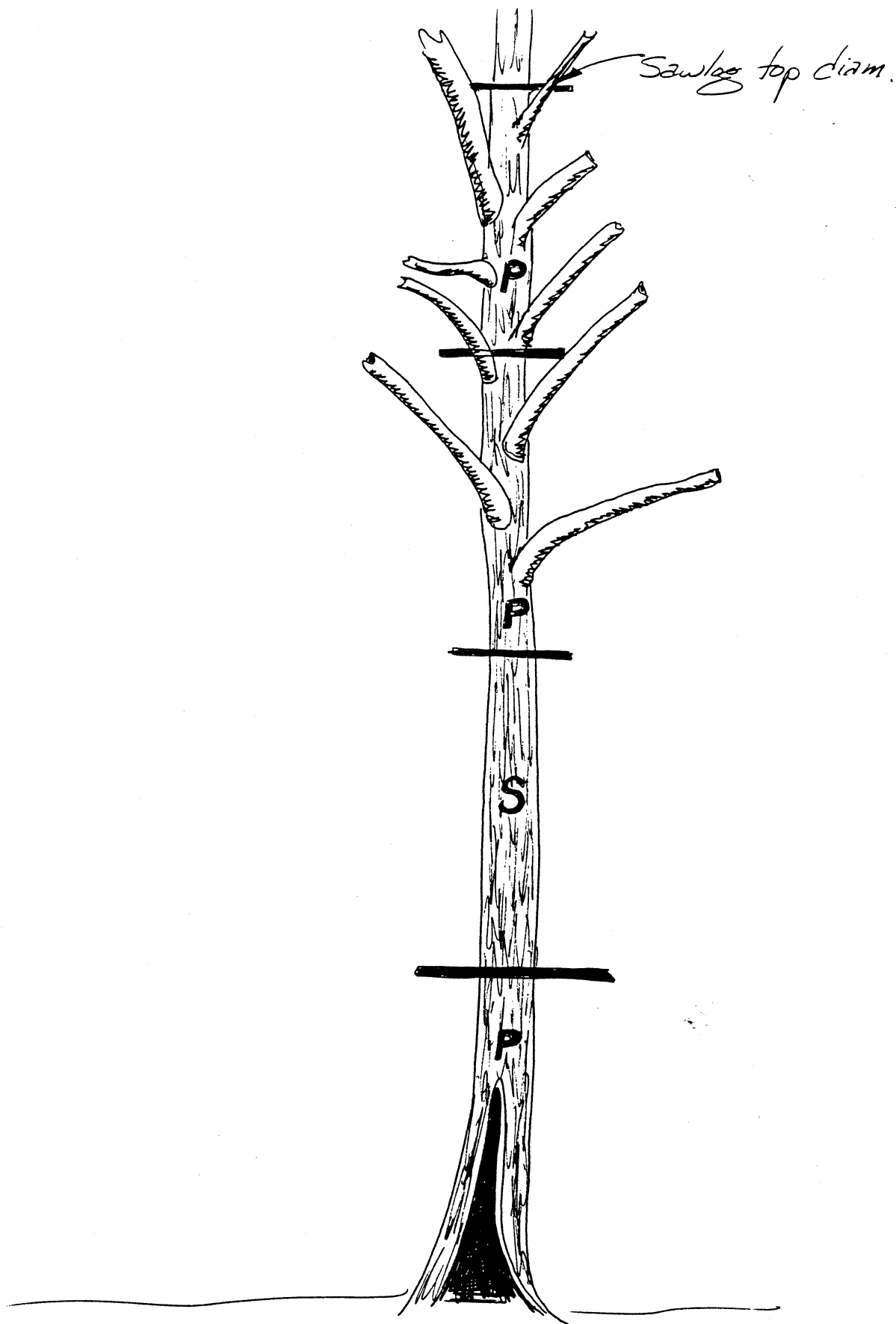
In order to include the pulpwood volume of the trees that have a combination of sound and cull logs in the cruise, the TSALE Program has been modified. It will now allow the user to enter both sawlog and pulpwood sticks for the same tree. For example, consider an 18" DBH tree with 4 logs(8' logs), one is sound and the other three are cull and classified as pulpwood. The correct data entry is to enter the tree as sawlog 18" DBH with one sawlog and 3 pulpwood sticks. This entry will include the volume up to the sawlog top diameter. The ratio will then be used to compute the topwood above the sawlog top diameter in the sawlog tree.

The following is a procedure for marking tally data entry:

1. For sawlog trees where all of the sawlog portion is sound, enter species, DBH, and the number of logs(half logs or sticks) to the specified sawlog top diameter. The topwood will be automatically estimated by using the topwood ratio.
2. For pulpwood trees, and sawlog size trees which are classified totally as pulpwood, enter species, DBH, and the number of pulpwood sticks.
3. For sawlog trees that have a combination of cull and sound sawlogs and we want to tally the cull sawlogs as pulpwood. Enter species, DBH, number of sound logs, and number of cull logs to be tallied as pulpwood. The cull logs should be entered as pulpwood. For example, a 16" DBH tree with one good log and three cull logs will be entered as a 16" DBH sawlog tree with one log and three pulpwood sticks(see attached illustration) .

NOTE: FOR SAWTIMBER TREES, DO NOT TALLY ANY PULPWOOD STICKS ABOVE THE SAWLOG TOP DIB. THIS TOPWOOD VOLUME WIL BE CALCULATED USING THE PROGRAM'S TOPWOOD RATIO.

Please use this procedure when using the marking tally cruise. If you have additional questions regarding this matter, please contact Nemah Hussain at (517) 335-3342.



EXAMPLE 3 - Marking Tally - August 20, 1992 (Sale 62-012-92-1)

A 100% tally was made of 50 trees in Stand 27. The area of the stand is 10 acres. The data area as follows:

- 10 aspen trees each with 8" DBH and 3 pulpwood sticks
- 10 aspen trees each with 10" DBH and 4 pulpwood sticks
- 5 aspen trees each with 12" DBH and 2 sawtimber logs
- 5 aspen trees each with 14" DBH and 3 sawtimber logs
- 10 white pine trees each with 10" DBH and 2 sawtimber logs
- 10 white pine trees each with 16" DBH and 4 sawtimber logs

The data is entered in the following format using EDIT/CREATE MARKING TALLY in TSALE (11 = Aspen, 30 = White Pine)

MARKTLY		MDNR - Timber Sale Management System				Date: 08/13/1992	
		Marking Tally Data Entry				Time: 11:08	
Sale Number 620129201		Name EXAMPLE 3					
Comp. 100	Stand 027	Stratum 001	% Cruised 100	Log Rule I	Acres	10.0	
Species	DBH	Logs	Sticks	Number of Trees	Stand	MBF	Cords
11	08	—	03	010	027	0.000	0.73
11	10	—	04	010	027	0.000	1.37
11	12	02	—	005	027	0.246	0.10
11	14	03	—	005	027	0.473	0.20
30	10	02	—	010	027	0.401	0.17
30	16	04	—	010	027	1.765	0.74
—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—

F3-InsLine, F4-DelLine, F7-New Stand, F9-Quit, F10-Save
PgUp-Prev, PgDn-Next, Home-Top, End-Bottom

You are prompted for information in the first 5 columns. The stand number (27) is printed by TSALE, and the volumes in the last 2 columns are calculated from the data entered for each line.

See attached materials for results.

Stand Volume Sampling Report

Timber Sale Number: 62-012-92-01

Printed: 08/13/1992

Stand	Acres	Avg. B/A	Mean Cords/Acre	Standard Deviation	Coeff. of Variation	Achieved Error	Num. Points
-------	-------	-------------	--------------------	-----------------------	------------------------	-------------------	----------------

NOTE: The following Stand Volumes are from Marking Tallies and are NOT included in the Stratified Sampling Report. The volume of marked utility poles are not included here.

27	10.00	3.76	0.91
----	-------	------	------

TMBSALE 08/13/1992 11:15

DESCRIPTION OF TIMBER

Timber Sale Number: 62-012-92-01

Printed: 08/13/1992

Species	Code	Product	Code	Pole Circumf.	Units	Code	Amount
Q. ASPEN	11	SAWLOGS	01		MBF	01	0.719
WHITE PINE	30	SAWLOGS	01		MBF	01	2.166
Q. ASPEN	11	PULPWOOD	02		Cords	02	2.40
WHITE PINE	30	PULPWOOD	02		Cords	02	0.91

Total MBF: 2.884 Including utility poles, if any.
Board feet are Int. 1/4 to 08" variable top.

Total CORDS - Pulp : 3.31

TMBSALE 08/13/1992 11:15

DESCRIPTION OF TIMBER by Stand

Timber Sale Number: 62-012-92-01

Printed: 08/13/1992

Species	Code	Product	Code	Pole Circumf.	Units	Code	Amount
STAND = 027		Acreage =	10.0				
Q. ASPEN	11	SAWLOGS	01		MBF	01	0.719
WHITE PINE	30	SAWLOGS	01		MBF	01	2.166
Q. ASPEN	11	PULPWOOD	02		Cords	02	2.40
WHITE PINE	30	PULPWOOD	02		Cords	02	0.91

Total MBF: 2.884 Including utility poles, if any.
Board feet are Int. 1/4 to 08" variable top.

Total CORDS - Pulp : 3.31

TMBSALE 08/13/1992 11:15

Edit / Create Marking Tally

This screen is used for entering the Marking tally data for a sale. The data entered and saved using this screen used for calculating species and product volumes and it is directly updated to the species and product table.

Up Arrow	-	Move up one row.
Down Arrow	-	Move down one row.
PgUP	-	Go to Previous Page.
PgDn	-	Go to Next Page.
Home	-	Go to Top.
End	-	Go to Bottom.
F3	-	Insert a line for data entry.
F4	-	Delete line.
F7	-	Change stand number for data entry or view.
F9	-	Exit
F10	-	Save data entered.

SPECIES	MDNR - Timber Sale Management System					Date: 08/13/1992					
	Species & Product					Time: 11:19					
Sale Number 620129201					Sale Name EXAMPLE 3						
_____ SPP _____				_____ Original Units _____				_____ Converted Units _____			
Comp	Stnd	SP	PR	Unit	Est Vol.	Upd Vol.	Cut Vol.	Unit	Upd Vol.	Cut	Vol.
100	027	11	01	01	0.72	0.7	0.0	01	0.7		0.0
100	027	30	01	01	2.17	2.2	0.0	01	2.2		0.0
100	027	11	02	02	2.40	2.4	0.0	02	2.4		0.0
100	027	30	02	02	0.91	0.9	0.0	02	0.9		0.0
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____

F3-Ins, F4-Del, PgUp-Prev, PgDn-Next, Home-Top, End-Bottom
F9 - Quit, F10 - Save

Num= =

Species and Product

This screen is used for adding, changing, deleting and viewing species and product data. If a tally had been created and saved then that process would have directly updated the species and product data. In case no tally data had been added for this sale, stand data should be created using Stand Information screen and then species and product volumes should be added using this screen. Estimated volume is a protected column and the data in this column can not be changed.

- Up Arrow - Move up one row.
- Down Arrow - Move down one row.
- PgUP - Go to Previous Page.
- PgDn - Go to Next Page.
- Home - Go to Top.
- End - Go to Bottom.
- F3 - Insert a line for data entry.
- F4 - Delete line.
- F9 - Exit
- F10 - Save data entered.

Note: Species and Product table is the master table for all volume data on the system and the data from this table is used for updating the appraisal and sale volumes. Any changes that are required on species and product data, including lumping of various species as 'Mixed hardwood / softwood', should be done using this screen.

The species and products by stand are computed in the program from the tally data and you need not to enter any data for volume in this screen.

The total volume for the sale is not displayed in this screen. The total species product summary for the sale and by stand can be obtained by using printing option and printing species product summary.

It is recommended that grouping species be done during the tally process. This makes the job of lumping faster and easier.

If you have sales without any tally data such as the small negotiated sales, you can enter species products and stand information directly without entering tally data. (See the procedures for negotiated sales.)

If you need to make any changes on the computed species product on the screen, the changes should be made on the "Upd Vol" column. Also you can change volume cut for scale sales closed or cancelled sales when you fill in completion report.

PREPARATION OF NEGOTIATED SALES (TYPE 02)
ON TSALE PROGRAM

- A. Negotiated Sale with Tally Data
1. Create a new sale
 2. Enter Tally Data
 3. Enter the additional information on cover type, site index, age, management object, treatment need, type of cut, and cover type after treatment on the statistical screen.
 4. Make the appraisal form and indicate N for bid field on all the species.
 5. Enter the average price and press F10 after the completion of the appraisal.
 6. Go to the proposal screen and enter the following information:
The county code
Enter "5" for method of bid
Year of Entry
Legal description
Payment Schedule -- M or S
Acres of the sale
 7. Save the proposal
 8. Choose cutting specifications
 9. Go to contract screen and provide the necessary information, then print the contract.

TYPE 02 SALE WITHOUT TALLY DATA

1. Start with entering stand information data on the stand information screen.
2. Enter species product on the species product screen.
3. Add the missing information on the statistics screen.
4. Fill in the appraisal information on the proposal screen.
5. Go to the proposal screen and provide the following:

Acres
Legal Description
Year of Entry
Payment Schedule
Bid Method
Compartment review data
Compartment number

and save proposal
6. Proceed with cutting specs and the preparation of the contract.

STAT		MDNR - Timber Sale Management System Statistics						Date: 08/13/1992 Time: 11:43									
Sale Number 620109201								Sale Name EXAMPLE 1									
Summary Statistics																	
Mean Cords/Acre				22.28		Variance				6.17		Std. Dev.				2.48	
Coeff. of Var.				11.15		Achieved Error				15.77							
Individual Stand Data																	
Comp	Stnd	Cvr Typ	BA	Stnd Acres	Age	SI	Cut Typ	Mean	Std Dev	Coeff Var	Ach Err	Pts	MO	Tr	New Cvr		
100	025	A6	0090	40	050	060	01	22.28	2.48	11.15	15.77	002	A	01	A0		
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		

PgUp - Prev Page, PgDn - Next Page, F9 - Quit, F10 - Save

Num= =

The statistics for the sale and for each stands are computed by the program from the tally data and placed on the statistic screen. The following information, however must be entered by the user for each stand:

1. Cover type - the O.I. cover type
2. Stand age
3. Stand site index
4. Cut method or type
5. Management objective "MO"
6. Treatment Needed "TR"
7. New cover type "New CVR" - the cover type after the cutting takes place

Stand acres on the statistics screen will be displayed to nearest full acre.

Statistics

This screen is used for changing and viewing sale and stand statistics. If a tally had been created and saved then that process would have directly updated the statistics data. In case no tally data had been added for this sale, stand data should be created using Stand Information screen and then statistics data can be added using this screen.

- | | |
|------------|------------------------|
| Up Arrow | - Move up one row. |
| Down Arrow | - Move down one row. |
| PgUP | - Go to Previous Page. |
| PgDn | - Go to Next Page. |
| F9 | - Exit |
| F10 | - Save data entered. |

Appraisal Screen:

To prepare the appraisal information, you need to go to the Appraisal screen. The volume by species are carried over from the species products screen. It is recommended that species grouping is done during tally entry. This makes the process of preparing sales faster. However you can do the grouping of species on the species products by stand. The updated volume "upd vol" can be changed for grouping species. The original estimated volume is computed from tally data and you cannot change it. The grouping of species can also be made in the process of preparing the appraisal. The total volume by species should not be changed. A printout of the species products will list the total species products for the sale and the individual stand species product. It is recommended that you print out the species products prior to preparing the appraisal. In the appraisal screen the bid species should be indicated by "Y" or "N" under Bid (Y/N). Remember for nonbid species the program will compute species appraised and purchase values and they are the same.

APPRAIS1		MDNR - Timber Sale Management System		Date: 08/13/1992	
		Stumpage Appraisal		Time: 11:48	
Sale Number	620999001	Sale Name	TRAIL HEAD ASPEN		
Species Code	12 B.T.ASPEN				
Product Code	02 PULPWOOD				
Units	02 CORDS				
Bid (Y/N)	Y	Appraised By			
Fell & Buck	10	Skid Problems	10	Skid Distance	08
Road Work	10	Road Distance	12	Mill Distance	05
Sawlog Qty.	—	Sawlog Quality	—	Market	30
Factor Total	0.85				
Avg. Price	15.00	Calc. Price	12.75	Price Used	12.75
Est. Volume	2197.9	Spp Appr	28023.23	Total Appr	74048.28
Price Bid	14.00	Spp Bid	30770.60	Total Bid	82359.84
F3 - Print, F4 - Delete SPP, F5 - Appraisal Text F7 - Previous SPP, F8 - Next SPP, F9 - Exit, F10 - Save					

Edit Appraisal and Bid Values: Stumpage Appraisal

This screen is used for adding, changing, deleting and viewing stumpage appraisal and bid data. The estimated volume is directly calculated from the species and product data. F7 and F8 keys can be used to scroll backwards and forwards on the appraisal data.

- F3 - Print appraisal data.
 - F4 - Delete appraisal data.
 - F5 - Go to appraisal text screen.
 - F7 - Display previous appraisal.
 - F8 - Display next appraisal.
 - F9 - Exit
 - F10 - Save data entered.
-

The species volume is transferred from the species product table to the appraisal form. It does not need to be changed unless you need lumping of species.

Edit Cutting Specifications:

There are 38 general cutting specifications. You can use any or all of the specifications for a given sale. However you need to use "TedEditor" instruction of this manual for deleting, adding, or modifying cutting specifications. If your area uses certain cutting specifications you can generate these specifications in a given sale and copying them to any sale by using start from other cutting specifications. The instructions for "TedEditor" is on page ____ of this manual.

MDNR - Timber Sale Management System

Cutting Specifications

- | | | |
|------|---------------------------------------|------------------------------|
| 1: P | 1: Edit Cutting Specs. | |
| 2: E | 2: Delete Cutting Specs. | |
| 3: P | 3: Start From Standard Cutting Specs. | |
| 4: S | 4: Start From Other Cutting Specs. | |
| 5: E | 5: Return to Main Menu | |
| 6: E | | |
| 7: | Edit Visual Impact Form. | G: Edit Purchaser Details. |
| 8: | Edit Sale Proposal. | H: Edit Forest Area Details. |
| 9: | Stand Information Update. | I: Bond Details. |
| P: | Printing Options. | X: eXit to DOS. |
| O: | Program Configuration | Quit TMBSALE. |

Edit the cutting specs for this sale.

Edit Cutting Specifications

This screen is used for creating or editing cutting specifications. Generally, new cutting specs are created by modifying standard cutting specifications (option 3). Options 1 through 4 use editor 'TED.COM' for editing cutting specifications.

Enter one of the following options:

- | | | |
|----|------------------------------------|--|
| 1. | Edit Cutting Specs | - Edit existing cutting specifications. |
| 2. | Delete Cutting Specs | - Delete existing cutting specifications. |
| 3. | Start from Standard cutting specs. | - Copy standard cutting specs for this sale and then edit them. |
| 4. | Start from Other cutting specs. | - Copy the specified cutting specs for this sale and then edit them. |
| 5. | Return to Main Menu | - Return to main menu. |

MDNR - Timber Sale Management System
Visual Impact Statement

Date: 05/08/1992
Time: 09:03

Sales Number XXXXXXXXXX

Previous Complaints (Y/N) _

Land Use Characteristics (Y/N) _

Change land use to _ Recreational. _ Residential. _ Commercial.

Stand Management Objective

_ Timber. _ Wildlife. _ Recreation. _ Other, specify

F3 - Print VI evaluation, F5 - VI Continued, F6 - VI Criteria
F9 - Exit, F10 - Save and Exit.

Visual Impact

This screen is used for adding, changing, printing and viewing visual impact information. This is the first of the three screens used for editing complete visual impact information.

- F3 - Print Visual Impact Form.
- F5 - Go to Visual Impact screen 2.
- F6 - Go to Visual Impact screen 3.
- F9 - Exit
- F10 - Save data entered.

Edit Visual Impact Form:

This option will display the current visual impact form used by the Division. After entering the information you can print the form by using "F3 option and attach with your timber sale proposal.

VISIMP2

MDNR - Timber Sale Management System
Visual Impact Statement (continued)

Date: 10/30/1992
Time: 14:23

Sale Number 620019201

Name TEST

Operations Inventory - Influence zone designation:

☐ General Forest. ☐ Undedicated. ☐ Other Wildlife - specify
☐ Travel. ☐ Winter Deer Range.
☐ Water. ☐ Developed by lease ☐ Recreation Sites - specify
☐ Wild/Natural area. or long term agreement.
☐ Other - specify (e.g. insect damage area).

Steps Taken to: (explain) ☐ Reduce Visual Impact. ☐ Gain Public Acceptance

F5 Return to VI screen

Visual Impact - Screen 2

This screen is used for adding, changing, printing and viewing visual impact information. This is the second of the three screens used for editing complete visual impact information.

F5 - Go to Visual Impact screen 1.

MDNR - Timber Sale Management System
Visual Impact Criteria

Date: 05/08/1992
Time: 09:03

- Critical:
 - The area is used extensively by residents of the area.
 - The site is identified as having historical significance.
 - The area is unique because of immediate or distant views.
 - Other - specify
- Significant:
 - The site is near special influence zone or private residence.
 - Even aged management (acreage greater than 40 acres)
- Insignificant:
 - The site is within the General Forest Area.
 - Uneven aged management.
 - Even aged management (acreage lesser than 40 acres)

F6 Return to VI screen

Visual Impact - Screen 3 : Visual Impact Criteria

This screen is used for adding, changing, and viewing visual impact criteria. This is the third of the three screens used for editing complete visual impact information. The users are required to mark only the 'Most Significant' visual impact criteria on this screen.

F6 - Go to Visual Impact screen 1.

PROPOSAL1

MDNR - Timber Sale Management System
Proposal ScreenDate: 08/13/1992
Time: 12:01

Sale# 620999001 Year 90 Type 01 Area 62 KALKASKA FOREST AREA
Name TRAIL HEAD ASPEN Cnty 83 WEXFORD
Compartment 140 Rev. Date 07/09/1989 Entry Yr. 1991 Acres 166.0
Bid Method 01 Lump Sum, Sealed Visual Impact Y
T 23N R 9W Sec 25 SW Credits Offered:
Sec 26 WNE;SENE;NESE;SWW TSI 0.00
T 23N R 9W Sec 35 NWSW;WNW Road 0.00
Sec 36 SEENE Other 0.00
Perf. Bond: 3702.00 Pay. Schedule: M Multiple Units
1 14.0% 2 28.0% 3 22.0% 4 19.0% 5 17.0% 6 _____% 7 _____%
8 _____% 9 _____% 10 _____% 11 _____% 12 _____% 13 _____% 14 _____%
15 _____% 16 _____% 17 _____% 18 _____% 19 _____% 20 _____% 21 _____%
22 _____% 23 _____% 24 _____% 25 _____%
Duration: 3 YRS
Cut Type: 01 Final harvest Proposal Date: 07/31/1992

F3 - Print, F5 - Proposal (cont), F6 - Post Cruise
F9 - Exit, F10 - Save

PROPOS1

MDNR - Timber Sale Management System
Proposal Screen

Date: 08/13/1992

Time: 12:01

Sale# 620999001 Year 90 Type 01 Area 62 KALKASKA FOREST AREA
 Name TRAIL HEAD ASPEN Cnty 83 WEXFORD
 Compartment 140 Rev. Date 07/09/1989 Entry Yr. 1991 Acres 166.0
 Bid Method 01 Lump Sum, Sealed Visual Impact Y
 T 23N R 9W Sec 25 SW Credits Offered:
 Sec 26 WNE;SENE;NESE;SWSW TSI 0.00
 T 23N R 9W Sec 35 NWSW;WNW Road 0.00
 Sec 36 SEENE Other 0.00
 Perf. Bond: 3702.00 Pay. Schedule: M Multiple Units
 1 14.0% 2 28.0% 3 22.0% 4 19.0% 5 17.0% 6 _____% 7 _____%
 8 _____% 9 _____% 10 _____% 11 _____% 12 _____% 13 _____% 14 _____%
 15 _____% 16 _____% 17 _____% 18 _____% 19 _____% 20 _____% 21 _____%
 22 _____% 23 _____% 24 _____% 25 _____%

Duration: 3 YRS

Cut Type: 01 Final harvest

Proposal Date: 07/31/1992

F3 - Print, F5 - Proposal (cont), F6 - Post Cruise
 F9 - Exit, F10 - Save

PROPOSLS3	MDNR - Timber Sale Management System Proposal Screen - 2	Date: 08/13/1992 Time: 12:17
Sale# 620999001	Name TRAIL HEAD ASPEN	
Sale Date and Time	ANY THURSDAY 3:00 PM	
Place	KALKASKA	
Newspaper	20 Leader and Kalkaska	

Cruiser	GRIEVE	
Justification for not cutting in the Current Entry Year:		

Area Forest Manager comments:		

F5 - Return to Proposal screen		

Use the newspapers codes to indicate which newspaper you want to advertise in.

Proposal Screen - 2

This screen is used for adding, changing, printing and viewing proposal specific data. This screen must be used for type 1 (advertised) sale only.

F5 - Return Proposal screen 1.

Proposal Screen - 3

This screen is used for adding, changing, printing and viewing proposal specific data. This screen must be used for type 1 (advertised) sale only.

F6 - Return Proposal screen 1.

PROPOSAL2	MDNR - Timber Sale Management System	Date: 08/13/1992
Edit Proposal - Pre Cruise Sale Information Time: 12:24		
Sale# 620999001	Name TRAIL HEAD ASPEN	
Number of Plots	0166	
Determined by Rule or Formula	R By Rule	
Allowable Error	10.00	
Coefficient of Variation	70.00	
Coefficient of Variation is obtained from		
X Similar Stand		
- Operations Inventory Plots		
- Reconnaissance Plots		
- Historical Data		
F6 - Return to Proposal screen		

Stand Information Screen

This screen is used for adding, changing, deleting and viewing stand related data. This information is created directly from the tally information entered for the sale. For type 02 (negotiated) sales, first the stand data is added using this screen and then species and product data is added for the stand using species and product screen.

- F4 - Delete Stand data.
- F9 - Exit
- F10 - Save data entered.

For type 02 sales, please be sure to complete the statistics screen information, and stand information before proceeding with species products and other screens for the sale.

STAND		MDNR - Timber Sale Management System		Date: 08/13/1992	
		Stand Information Update		Time: 12:36	
Sale Number 620999001		Sale Name TRAIL HEAD ASPEN			
Compartment 140		Stand Number 003			
<div style="display: flex; align-items: center;"> <div style="margin-right: 10px;">CUT →</div> <div> Acreage 8.0 Basal Area 95.0 Method of Cut 01 </div> </div>	Age 069 Number of Points 014 FDF Flag -	Cover Type A6 Avg. Cords/Acre 27.79 Site Index 057			
Coeff. of Variation 95.31					
STD Deviation 26.49					
Achieved Error 50.95 %					
Cover Type after Completion A0 Aspen					
Management Objective A Aspen					
Treatment 01 No Treatment needed					
F4 - Delete, F9 - Quit, F10 - Save & Exit					
Num= =					

CONTRACT

MDNR - Timber Sale Management System
Contract ScreenDate: 08/13/1992
Time: 12:43

Sale Number	620999001	TRAIL HEAD ASPEN	Contract Seq	1		
Issue Date	07/31/1992	Expiration: Orig.	07/30/1994	Current 07/30/1995		
Purchaser Id	522785159	Name	HUSSAIN NEMAH	Pay Type 1		
Appraised Price	74048.28	Purchase Price	82359.84	Bond Amount 3702.00		
Bond No.	Type	Purpose	Issue Date	Expiration Date	Amount	
522785159	2	1	07/31/1992	07/30/1994	3702.00	
_____	_____	_____	_____	_____	_____	
_____	_____	_____	_____	_____	_____	
_____	_____	_____	_____	_____	_____	
Payment Schedule	M	Multiple Units	Down	Payment	8235.98	
1 11530.38	2	23060.76	3	18119.17	4 15648.37	5 14001.17
6 _____	7 _____	8 _____	9 _____	10 _____	_____	_____
11 _____	12 _____	13 _____	14 _____	15 _____	_____	_____
16 _____	17 _____	18 _____	19 _____	20 _____	_____	_____
21 _____	22 _____	23 _____	24 _____	25 _____	_____	_____

F2 - Print Reassignment, F3 - Print Contract, F4 - Delete
F9 - Exit, F10 - Save and Exit.

Num= =

Contract Screen

This screen is used for adding, changing, deleting and viewing contract information. Contract Sequence is a one digit serial number created by the system. This number is used for identifying a particular contract when a sale has more than one contracts (eg. for re-assignments).

- F2 - Print Re-assignment form.
- F3 - Print Contract.
- F4 - Delete Contract.
- F9 - Exit
- F10 - Save data entered.

Before entering information for the contract there are three requirements.

1. The purchaser information on the edit purchaser details screen has to be provided. It is recommended that each area will enter all the purchaser information for their area. Then you only need to enter the information on the new purchasers. A list of purchasers for each area can be provided from Lansing.
2. Bond details - Bond information should be provided before the preparation and printing of the contract.
3. Re-assignment printing requires that the previous contract for the sale should have been closed with a status code of 4 (reassigned) - see attached information for reassignment procedures:

After the completion of the required information, the preparation of the contract becomes simple as most of the information is carried over from other screens.

COMPLETE		MDNR - Timber Sale Management System			Date: 08/13/1992	
		Contract Completion			Time: 12:46	
Sale # 620999001 Contract Sequence 1 Sale Name TRAIL HEAD ASPEN						
Issue Date		07/31/1992		Expiration Date		07/30/1995
Adj. Price		86061.84				
Purchaser Id		522785159		Purchaser Name		HUSSAIN
Report Date		07/31/1992		Status Code		4 Reassigned
Acres Cut		0.0		Reasons:		
CONTRACT WAS REASSIGNED TO JOHN DOE FROM HUSSAIN BY MUTUAL AGREEMENT						
Bond Number		Type	Amount	Forfeit	Refund	Hold
522785159		2	3702.00	0.00	0.00	0.00
_____		—	_____	_____	_____	_____
_____		—	_____	_____	_____	_____
_____		—	_____	_____	_____	_____
Credits Offered:		TSI	0.00	Roads	0.00	Other
Credits Earned :		TSI	0.00	Roads	0.00	Other
						Remittance:
						15232.38
F3 - Print, F4 - Delete, F9 - Quit, F10 - Save						

Contract Completion Screen

This screen is used for adding, changing, deleting and viewing contract completion data. This system requires that all contracts that have been completed with a status of 1 (completed as contracted) and that have the type of payment other than 3, must have the sum of remittances and credits equal to the sum of purchase price and adjustments. For contracts completed with a status of 1 (completed), the system equates the cut volume with the updated volume and directly updates the species and product table. For contracts completed with a status of 2 (closed), the system automatically brings up the species and product screen so that the users can enter cut volume.

- ```
F3 - Print Completion.
F4 - Delete Completion.
F9 - Exit
F10 - Save data entered.
```

Note: To re-assign a contract, close the existing contract with a status of 4 and then add a new contract, for the same sale, on the Contract screen.

## CONTRACT REASSIGNMENT

Contract reassignment from one purchaser to another by mutual agreement must be done according to the following procedures:

1. Make a completion report for the contract for the original purchaser on the contract completion screen. Use status 4 to indicate that the contract has been reassigned, also write a brief summary under reasons to indicate the contract has been assigned from purchaser X to purchaser Y.
2. Make sure that the purchaser to whom the contract assigned is on your purchaser screen.
3. Enter bond number, type, amount and other information on the bond details screen for the new purchaser.
4. Go to contract screen and use the cursor to move to contract seq field and change to blank, then press enter key to make a new contract.
5. Under purchaser ID, enter the new purchaser ID, and change any other fields that need to be changed.
6. Enter bond information for the new purchaser.
7. After you complete, press "F2" to print the reassignment form, and "F3" to print the contract in the name of the new purchaser.

Most of the information for the completion report are carried over from the previous screens. The status code of the sale should be indicated. There are four status codes:

1. Completed as contracted
2. Closed
3. Cancelled
4. Reassigned

For status code "1" and lump sum sale, it is assumed that all the acres and the volume specified in the contract are cut and there is no adjustment in volume, value or acres are needed. For scale sales and sales with status code of "2" or "3" acres cut and volume cut must be adjusted on the species product screen. The acres can be modified on the contract completion screen and the volume modification must be made on the species product screen under "cut volume" column.

Under reasons: A summary of the reasons for cancellation, closed or reassignment should be indicated.

The user also has to indicate the bond disposition for cash bond. Credit earned also has to be indicated. For sales with a status code of "4", the user should go to the contract screen to print reassignment form. To do this you move the cursor to contract seq and make blank and press enter to create a new contract. Proceed by entering information on the new purchaser by entering his ID number and bond information. After this you can print the reassignment form by pressing "F2" function and the new contract by pressing "F3" function.

AMEND

MDNR - Timber Sale Management System  
Contract Amendment Screen

Date: 08/13/1992  
Time: 12:56

Sale No 620999001 TRAIL HEAD ASPEN

Contract 1 Amendment 01

Contract: Issued 07/31/1992 Expiration: Orig. 07/30/1994 New 07/30/1995  
Adj.Price 86061.84 Pur. ID 522785159 HUSSAIN NEMAH

Extension: Extended To 07/30/1995 Additional Fee 4303.00 Fee% 5  
Modification: Adjustment Amt \_\_\_\_\_ Description:

F3 - Print, F4 - Delete, F9 - Exit, F10 - Save and Exit

## TIMBER SALE MANAGEMENT SYSTEM

### Contract Amendment Screen

This screen is used for adding, changing, deleting and viewing contract amendments. A two digit serial number is generated by the system for each amendment added to a contract. Amendments can be either contract extensions or modifications or both.

- F3 - Print Amendment.
  - F4 - Delete Amendment.
  - F9 - Exit
  - F10 - Save data entered.
- 

To extend the contract expiration date, enter the new date, indicate the fee amount and percent, then print the form.

For other changes use the modification option. If the adjustment amount is to be subtracted from the sale indicate that by placing a minus sign preceding the amount. If the adjustment amount is to be added to purchase value leave without any sign.

Volume adjustment must be made on the species product screen under "upd vol" column on stand by stand basis.

## Receipt Screen

This screen is used for adding, changing, deleting, viewing and printing receipt data. Receipt numbers are automatically generated by the system. To inquire on a certain receipt, enter the receipt number and press enter. To add a new receipt, leave the receipt number field blank and press enter.

For timber receipts (types 1, 2 and 14), the system automatically displays purchaser, down payment, adjustment, and payment units information for the sale number entered by the user. Extension fees are required to be added as a separate receipt (type 14). The "Amount Due" field on the screen (before the "Amount Received" field) displays total amount due for the sale, including all adjustments, extensions and payments.

All payments made for a timber sale (receipt type 1 and 2) must be allocated to down payment, adjustment, or payment units. Down payment amount can also be allocated to one or more payment units.

- F3 - Print Receipt.
- F5 - Go to Receipt Screen 2.
- F9 - Exit
- F10 - Save data entered.

The "Receipt" screen generates receipts on 8½ by 11 paper and keeps track of payment on various timber sale contracts. It also generates receipt for small receipt sales and other types of transactions. If you are receiving money for existing timber sales, indicate the sale number and proceed with completing the required information on the "Receipt" screen. For receipt type use the coding sheet which indicates the codes used for various types of receipts. Sale number is required for all transactions dealing with payment on timber sale contracts. The computer will keep track of the amount received and the balance remaining on the sale. It also indicates the amount of credit if any is specified on the proposal.

The area is responsible for the receipts assigned to it. The receipt number is an 8 digit number starting with the area code. In the installation process of the program indicate what number you want to start from. For areas with two offices the range of numbers used in each location should be indicated in the installation process.

The species and product are optional and are on the second screen of the receipt. For small receipt sales and bonds you can enter the description or the purpose of the receipt under receipt description.

The official copy of the receipt can be printed by using the "F3" function.

The receipt should be signed by the authorized person and copies made and sent to various offices as previously done.

Screen 2 of the receipt does not save data. It is used for printing purposes only.



## Sale Inquiry

This is an inquiry only screen that displays summary information about a sale. Enter the sale number and press enter key to get the summary information on any sale.

F9 - Exit

Current status -- on sale inquiry refer to the type of information available on the sale.

1. only proposal information entered
2. proposal and contract information entered
3. proposal, contract and completion
4. contract information only
5. contract and completion

| MDNR - Timber Sale Management System |            |                      |       | Date: 05/08/1992 |       |
|--------------------------------------|------------|----------------------|-------|------------------|-------|
| Sale Inquiry                         |            |                      |       | Time: 09:07      |       |
| Sale Number                          | XXXXXXXXXX | Purchaser Name       | _____ |                  |       |
| Forest Area                          | ___        | Purchaser ID         | _____ |                  |       |
| Sale Sub.No.                         | ___        | Address              | _____ |                  |       |
| Sale Year                            | ___        | City                 | _____ |                  |       |
| Sale Type                            | ___        | State                | ___   | Zip              | _____ |
| Contract Seq                         | ___        |                      |       |                  |       |
| Sale Name                            | _____      | TWN                  | ___   | RNG              | ___   |
| County                               | ___        | TWN                  | ___   | RNG              | ___   |
|                                      |            | SECT                 | ___   | SECT             | ___   |
|                                      |            | SECT                 | ___   | SECT             | ___   |
| Proposal Date                        | _____      | Type of Cut          | ___   | Acreage          | ___   |
| Appraised Value                      | _____      | Sale Value: Original | _____ | Current          | ___   |
| Remittances                          | _____      | Credits Earned       | _____ | Bond Credits     | ___   |
| Issue Date                           | _____      | Expiration: Original | _____ | Current          | ___   |
| Current Status                       | ___        | Final Status         | ___   | Date             | _____ |
| F9 - Quit                            |            |                      |       |                  |       |



### Purchaser Name Inquiry

This screen displays an alphabetical list of purchasers starting from the name entered on the first line. To see a list of all purchasers, leave the purchaser name field on the first line blank and press enter.

Up Arrow - Move up one row.  
Down Arrow - Move down one row.  
PgUP - Go to Previous Page.  
PgDn - Go to Next Page.  
Home - Go to First Page.  
End - Go to Last Page.  
F9 - Exit

MDNR - Timber Sale Management System  
Purchaser Name Inquiry

Date: 05/08/1992  
Time: 09:07

Purchaser Name \_\_\_\_\_

Purchaser Name

Purchaser Id.

|       |       |       |       |
|-------|-------|-------|-------|
| _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |

PgUp - Prev Page, PgDn - Next Page, Home - First Page, End - Last Page  
F9 - Quit

## Purchaser Details

This screen is used for adding, changing, deleting, and viewing purchaser name and address information.

- F4 - Delete Purchaser.
- F9 - Exit
- F10 - Save and Exit.

Note: Caution flag field should be set to 'Y' for purchasers whose checks have been rejected for 'Non sufficient funds'. Once this field is marked 'Y', a warning will flash every time any receipt is being generated for this purchaser.

The purchaser screen must be completed prior to the preparation of the contract. The information from the purchaser screen are used in the contract, completion, receipt and amendment screen.

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                             |                         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|-------------------------|
| <b>PURCHASE</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>MDNR - Timber Sale Management System</b> | <b>Date: 08/13/1992</b> |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>Purchaser Details</b>                    | <b>Time: 13:40</b>      |
| <div style="display: flex; justify-content: space-between;"><div><b>Purchaser ID</b> _____</div><div><b>Last Name</b> _____ <b>First Name</b> _____</div></div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"><div><b>Address</b> _____<br/>_____</div><div><b>City</b> _____</div></div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"><div><b>State</b> _____</div><div><b>Zip Code</b> _____</div></div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"><div><b>Caution</b> _____</div><div></div></div> |                                             |                         |

## Forest Area

This screen is used for adding, changing, deleting, and viewing forest area details.

- F4 - Delete Forest Area.
- F9 - Exit
- F10 - Save and Exit.

Note: Districts must be added to the system before any forest areas, that belong to that district, can be added. The system release diskettes have district and area data already added to the system and therefore district and area should only be changed.

|                                                     |               |                                 |
|-----------------------------------------------------|---------------|---------------------------------|
| MDNR - Timber Sale Management System<br>Forest Area |               | Date: 05/08/1992<br>Time: 09:07 |
| Area Code                                           | Sub-Area Code |                                 |
| Forest or Area Name                                 |               |                                 |
| Forest/Area Forester                                |               |                                 |
| Address                                             |               |                                 |
| City                                                |               |                                 |
| State                                               | Zip           |                                 |
| Phone No                                            |               |                                 |
| Region                                              | District      |                                 |
| F4 - Delete, F9 - Exit, F10 - Save and Exit         |               |                                 |

## Bond Detail

This screen is used for adding, changing, deleting, and viewing bond data. Purchaser data must be added to the system before bonds can be added for the purchaser. When a new bond is added to the system, original amount and current amount both are the same as the bond amount. Once the bond has been used for a contract, the current amount filed displays the bond amount available for other contracts.

F4 - Delete Bond.  
F9 - Exit  
F10 - Save and Exit.

This screen keeps track of the bond information for all purchasers. Bond number for cash bond is the receipt number, while bond number for surety, letter of credit and certificate of deposit, the bond number is the number given by the bank or surety company. Expiration date for cash bonds is to be left blank. For other types of bonds, enter the actual expiration date.

The current amount of the bond is the available amount after subtracting the amount used for other sales.

### Note:

1. Entering a sale number in the 'Bond use limited to Sale Number' field protects against the use of that bond for any other sale.
2. Entering an area code in the 'Bond use limited to Area' field protects against the use of that bond for any other sale in any other area.

| MDNR - Timber Sale Management System<br>Bond Detail |       | Date: 05/08/1992<br>Time: 09:05 |
|-----------------------------------------------------|-------|---------------------------------|
| Bond Number :                                       | _____ |                                 |
| Purchaser ID :                                      | _____ |                                 |
| Purchaser Name :                                    | _____ |                                 |
| Bond Type :                                         | _____ |                                 |
| Bond Purpose :                                      | _____ |                                 |
| Bank/Surety Company :                               | _____ |                                 |
| Bond Use Limited to :                               |       |                                 |
| Area Code :                                         | _____ |                                 |
| Sale Number :                                       | _____ |                                 |
| Issue Date :                                        | _____ | Expiration Date : _____ *       |
| Original Amount :                                   | _____ | Current Amount : _____          |

F4 - Delete , F9 - Quit , F10 - Save

\* required, except for cash bonds. Put 2010 in for continuous bonds

## Program Configuration

This screen is for changing the configuration of the Timber Sale program.

1. Path for R:BASE files : By default this is the path that had been selected during installation of the program. If the user wishes to use any other directory, then the user must copy all necessary R:BASE files to the new directory.

2. Editor Path and Name : By default this is the path that had been selected during installation of the program. If the user wishes to use any other directory, then the user must copy all necessary editor files to the new directory.

3. Printer Selection : The screen displays a menu of available printers from which a suitable printer can be selected.

4. Colors Selection : The screen allows the users to select foreground and background colors.

F9 - Exit without saving changes.

F10 - Save changes and Exit.

MDNR - Timber Sale Management System  
Program Configuration

Date: 05/08/1992  
Time: 08:58

Full Path for Rbase Files: c:\RBFILES  
Editor Path and Name: c:\TIMBER\TED.COM

Printer Type IBM 100%  
Printer Route PRN PRN/LPT1/LPT2/..  
Noise is ON ON/OFF

|         | Foreground (0..15) | Background (0..7) | 123456789012345 |
|---------|--------------------|-------------------|-----------------|
| Normal  | 07                 | 1                 | Normal          |
| Bright  | 15                 | 1                 | Bright          |
| Reverse | 01                 | 7                 | Reverse         |

F9 - Returns to the main menu without saving the changes  
F10 - Saves the changes

## TIMBER SALE MANAGEMENT SYSTEM

### Printing Options

Enter one of the following options:

- |    |                                  |   |                                                                                                                   |
|----|----------------------------------|---|-------------------------------------------------------------------------------------------------------------------|
| 1. | Print Proposal                   | - | Print proposal for the selected sale. This option also prints the cutting specifications.                         |
| 2. | Print Contract                   | - | Print contract for the selected sale. This option also prints the cutting specifications and standard conditions. |
| 3. | Print Cutting specs for Proposal | - | Print Cutting specifications for Proposal.                                                                        |
| 4. | Print Cutting specs for Contract | - | Print Cutting specifications for Contract.                                                                        |
| 5. | Print Appraisal                  | - | Print Appraisal data entered.                                                                                     |
| 6. | Print Visual Impact              | - | Print Visual Impact form.                                                                                         |
| 7. | Print Product Summary            | - | Print Product Summary.                                                                                            |
| 8. | Print Statistics                 | - | Print Statistics.                                                                                                 |
| 9. | List Data Entered                | - | Print Tally Data entered.                                                                                         |
| A. | Print Contract Amendment         | - | Print Contract Amendment form.                                                                                    |
| B. | Print Completion Report          | - | Print Completion report.                                                                                          |
| R. | Return to Main Menu              | - | Return to Main Menu.                                                                                              |

## TIMBER SALE MANAGEMENT SYSTEM

### MDNR - Timber Sale Management System

#### Printing Options

- 1: P 1: Print Sale Proposal.
- 2: E 2: Print Sale Contract.
- 3: P 3: Print Cutting Specs. for Proposal
- 4: S 4: Print Cutting Specs. for Contract
- 5: E 5: Print Appraisal.
- 6: E 6: Print Visual Impact Form.
- 7: E 7: Print Product Summary.
- 8: E 8: Print Statistics.
- 9: E 9: List Data Entered.
- 9: S A: Print Contract Amendment.
- B: Print Timber Cutting Report.
- R: Return to main menu.

**FOREST MANAGEMENT CODES USED FOR TIMBER SALE PROGRAM**



PRODUCT CODES:

01 Sawlogs  
 02 Pulpwood  
 03 Posts  
 04 Ties  
 05 Poles  
 06 Lts  
 07 Cabin Logs  
 08 Cribbin  
 09 Lagging  
 10 Chemical Wood  
 11 Fuelwood  
 12 Piling  
 13 Mining Poles  
 15 Boughs  
 16 Christmas Trees  
 17 Rafter Poles  
 18 Chipped Pulpwood  
 19 Shingle Bolts  
 20 Pickets  
 23 Damages  
 24 Mining Timber  
 25 Splies  
 26 Excelsior (Unpeeled)  
 27 Excelsior (Peeled)  
 28 Posts (Peeled)  
 29 Pulpwood (Machine Peeled)  
 30 Utility Poles  
 31 Cants  
 32 Gravel  
 33 Sand  
 34 Clay  
 35 Shale  
 36 Stone  
 37 Limestone  
 38 Sod  
 39 Fill Dirt (Borrow)  
 40 Soil  
 41 Peat  
 42 Tranite  
 43 Pulpwood  
 (Total Tree Chipped)

SPECIES CODES:

01 Sugar Maple (Hard)  
 02 American Elm  
 03 Red Maple (Soft)  
 04 Yellow Birch  
 05 Basswood  
 06 White Ash  
 07 Beech  
 08 Red Oak  
 09 White Oak  
 10 Paper Birch  
 11 Q. Aspen  
 12 B. T. Aspen  
 14 Cottonwood  
 15 Balm of Gilead  
 (Balsam Poplar)  
 20 Balsam Fir  
 21 White Spruce  
 22 Black Spruce  
 23 Norway Spruce  
 25 N. White Cedar  
 27 Tamarack  
 28 European Larch  
 30 White Pine  
 31 Red Pine  
 32 Jack Pine  
 35 Mixed Pine  
 37 Austrian Pine  
 38 Scotch Pine  
 39 Hemlock  
 41 Black Ash  
 45 Box Elder  
 47 Butternut  
 49 Black Cherry  
 53 Rock Elm  
 54 Red Elm (Slippery)  
 61 Ironwood  
 66 Black Walnut  
 67 Willow  
 70 Mixed Oak (Scrub Oak)  
 80 Mixed Aspen  
 90 Miscellaneous\*  
 91 Other Commercial Species  
 98 Mixed Softwood  
 99 Mixed Hardwood

COUNTY CODES:

01 Alcona  
 02 Alger  
 03 Allegan  
 04 Alpena  
 05 Antrim  
 06 Arenac  
 07 Baraga  
 08 Barry  
 09 Bay  
 10 Benzie  
 11 Berrien  
 12 Branch  
 13 Calhoun  
 14 Cass  
 15 Charlevoix  
 16 Cheboygan  
 17 Chippewa  
 18 Clare  
 19 Clinton  
 20 Crawford  
 21 Delta  
 22 Dickinson  
 23 Eaton  
 24 Emmet  
 25 Genesee  
 26 Gladwin  
 27 Gogebic  
 28 Grand Traverse  
 29 Gratiot  
 30 Hillsdale  
 31 Houghton  
 32 Huron  
 33 Ingham  
 34 Ionia  
 35 Iosco  
 36 Iron  
 37 Isabella  
 38 Jackson  
 39 Kalamazoo  
 40 Kalkaska  
 41 Kent  
 42 Keweenaw  
 43 Lake  
 44 Lapeer  
 45 Leelanau  
 46 Lenawee  
 47 Livingston  
 48 Luce  
 49 Mackinac  
 50 Macomb  
 51 Manistee  
 52 Marquette  
 53 Mason  
 54 Mecosta  
 55 Menominee  
 56 Midland  
 57 Missaukee  
 58 Monroe  
 59 Montcalm  
 60 Montmorency  
 61 Muskegon  
 62 Newaygo  
 63 Oakland  
 64 Oceana  
 65 Ogemaw  
 66 Ontonagon  
 67 Osceola  
 68 Oscoda  
 69 Otsego  
 70 Ottawa  
 71 Presque Isle  
 72 Roscommon  
 73 Saginaw  
 74 St. Clair  
 75 St. Joseph  
 76 Sanilac  
 77 Schoolcraft  
 78 Shiawassee  
 79 Tuscola  
 80 Van Buren  
 81 Washtenaw  
 82 Wayne  
 83 Wexford

FOREST CODES:*No Green Ash Code*Copper Country State Forest:

11 Baraga Forest Area  
 12 Crystal Falls Forest Area  
 13 Norway Forest Area-

Escanaba River State Forest:

31 Ishpeming Forest Area  
 31 Gwinn Forest Area  
 33 Escanaba Forest Area-

Lake Superior State Forest:

41 Shingleton Forest Area-  
 42 Newberry Forest Area  
 44 Naubinway Forest Area  
 45 Sault Ste. Marie Forest Area

Mackinaw State Forest:

51 Indian River Forest Area  
 52 Gaylord Forest Area  
 53 Pigeon River Country Forest Area  
 54 Atlanta Forest Area

Pere Marquette State Forest:

61 Traverse City Forest Area  
 62 Kalkaska Forest Area  
 63 Baldwin Forest Area

AuSable State Forest:

71 Roscommon Forest Area  
 72 Grayling Forest Area  
 73 Gladwin Forest Area

80 Other

\*Non-Commercial: Mt. Ash; Pin Cherry; Apple; Thornapple; Dogwood;  
 Mt. Maple; Alder; Choke Cherry; Blue Beech; Sumac



**From:** Laura Harrison  
**To:** Chris Trombly  
**Date:** 8/26/03 12:08PM  
**Subject:** Re: Damage Penalty - Contract #41-005-00-01 (Comp. 24 Red Pine)

Chris

You should void that receipt and use a receipt type 13. In order for me to give you the correct account coding I will need to know the acquisition code(s).

>>> Chris Trombly 08/26/03 11:31AM >>>

Laura - F.Y.I. Just generated a receipt (#41002893) for WJZ & Sons Harvesting for \$4131.65. This is a receipt for a penalty collected for excessive damage to trees, as well as cutting of non-designated species on a contract. I used type "14", extension fee. If you have any questions, just give me a call. Chris

**CC:** Douglas Heym; Jeff Stampfly

Note: Receipt Types 01, 02, ~~10~~ & 14 are linked to a timber sale. To close a sale, they are added together and compared to the sale value.

Receipt Type 13 is not linked. The receipt will therefore have no deposit information. The Division Accountant has to add deposit info to all receipt type 13's.

TYPE OF RECEIPT (PERMIT & SALE TYPE):

- 01 Timber - Advertised Sale
- 02 Timber - Negotiated Sale
- 03 Timber - Small Receipt Sale
- 04 Nonmetallic Mineral Products Sale
- 05 Logging Removal Permit
- 06 Bond (All Types)
- 07 User Fees
  - (Agricultural, Grazing,
  - Group Camping, Etc.)
- 08 Application and Review Fees (All)
- 09 Trespass
- 10 Well Site Timber Consideration Fee
- 11 Road Access Timber Consideration Fee
- ~~12 Gifts~~ *canceled*
- 13 Miscellaneous Other
- 14 Extension Fee For Timber Sales &
  - penalty*

~~15 Fuelwood permit (\$20)~~ *canceled*

TYPE OF CONTRACT:

- 01 Advertised Sale
- 02 Negotiated Sale with Contract
- 03 Small Sale Without Any Contract

TYPE OF PAYMENT:

- 1 Lump Sum
- 2 Stumpage Witholding
- 3 Scale

BOND TYPE:

- 1 Cash
- 2 Surety
- 3 Letter of Credit
- 4 Certificate of Deposit

STATUS:

- 1 Complete
- 2 Closed
- 3 Canceled
- 4 Reassigned

METHOD OF CUT:

- 1 Final Harvest
- 2 Seed Tree
- 3 Shelterwood - Seed
- 4 Thinning
- 5 Removal
- 6 Delayed Removal
- 7 Shelterwood-Preparatory
- 8 Selection
- 9 Salvage or Improvement

METHOD OF BID:

- 1 Lump Sum Sealed
- 2 Lump Sum Oral
- 3 Scaled Sealed
- 4 Scaled Oral
- 5 Other
  - (Use of Negotiated Sales)

TREATMENT:

- 1 No Treatment Needed
- 2 Scarification
- 3 Planting
- 4 Direct Seeding
- 5 Opening Creation and
  - Maintenance
- 6 Removal of Residual Stems
- 7 Road Maintenance / Seeding
- 8 Other Type of Treatment

COVER TYPE (Must be an Alphabetic Character)

- A - Aspen (upland)
- B - Paper Birch
- C - Northern White Cedar
- D - Treed Bog
- E - Swamp Hardwoods
- F - Upland Spruce Fir
- G - Grass
- H - Hemlock
- I - Local Use
  - (explain in remark card)
- J - Jack Pine
- K - Rock
- L - Lowland Brush
- M - Northern Hardwoods
- N - Marsh
- O - Oak
- P - Balsam Poplar & Swamp Aspen
  - & Swamp White Birch
- Q - Mixed Swamp Conifers
- R - Red Pine
- S - Black Spruce - Swamp
- T - Tamarack
- U - Upland Brush
- V - Bog or Muskeg
- W - White Pine
- X - Non-stocked, no understory
  - for understory classification
- Y - Sand Dunes
- Z - Water

SIZE-DENSITY:

- (0) Nonstocked (less than 17%)
- (1) Seedling-Sapling Poor,
  - 100-339 trees/acre (18-39% stocked)
- (2) Seedling-Sapling Medium
  - 400-699 trees/acre (40-69% stocked)
- (3) Seedling-Sapling Well
  - 700+ trees/acre or a minimum of 70% stocked
- (4) Poletimber Poor, 10-39 sq. ft. BA (5" and up)
- (5) Poletimber Medium, 40-69 sq. ft.
  - (5" and up)
- (6) Poletimber Well, 70 and over sq. ft. BA
  - (5" and up)
- (7) Sawtimber Poor, 10-39 sq. ft. BA
  - (10" and up)
- (8) Sawtimber Medium, 40 -69 sq.ft. BA
  - (10" and up)
- (9) Sawtimber Well, 70 and over sq. ft. BA
  - (10" and up)

UNIT CODES:

- |                    |      |
|--------------------|------|
| 01 MBF             | .000 |
| 02 Cords           | .00  |
| 03 Linear Feet     | Unit |
| 04 Each            | Unit |
| 05 Ton             | .00  |
| 06 Load            | Unit |
| 07 Cubic Yard      | Unit |
| 08 Square Yard     | Unit |
| 09 Acres           | Unit |
| 10 Bundle or Bale  | Unit |
| 11 Thousand Pounds | .00  |
| 12 Cubic Feet      | .00  |

CURRENT STATUS (computer generated)

- 1 Proposal
- 2 Proposal and Contract
- 3 Proposal, Contract, and Completion
- 4 Contract
- 5 Contract and Completion

MICHIGAN NEWSPAPER CODES

1. ALPENA -- The Alpena News
2. ATLANTA -- Montmorency County Tribune (Th)
3. BALDWIN -- Lake County Star (T)
4. BIG RAPIDS -- The Pioneer
5. CADILLAC -- Cadillac News
6. CHEBOYGAN DAILY TRIBUNE
7. CLARE--The Clare Sentinel
8. EAST TAWAS -- Iosco County News Hearld (W)
9. ESCANABA -- The Daily Press
10. FRANKFORT -- Benzie County Record/Patroit (W)
11. GAYLORD -- Gaylord Herald Times (Th)
12. GAYLORD -- Our Home Town
13. GLADWIN -- Gladwin County Record and Beaverton Clarion (W)
14. GRAYLING -- Crawford County Avalanche (Th)
15. HARRISON -- Clare County Cleaver (Th)
16. HARRISVILLE -- Alcona County Review (T)
17. HOUGHTON -- Daily Mining Gazette
18. HOUGHTON LAKE -- Houghton Lake Resorter (Th)
19. IRON MOUNTAIN -- The Daily News
20. KALKASKA -- Leader and Kalkaska (Th)
21. LAKE CITY -- Lake City Waterfront (W)
22. L'ANSE -- L'Anse Sentinel (W)
23. MANISTIQUE -- Pioneer-Tribune (W)
24. MARQUETTE -- The Mining Journal
25. MENOMINEE -- Herald Leader (Daily)
26. MIDLAND -- Midland Daily News
27. MIO -- Oscoda County Herald (T)
28. MUNISING -- The Munising News (W)
29. NEWBERRY -- The Newberry News (W)
30. ONAWAY -- The Onaway Outlook (W)
31. OSCODA -- Oscoda Press (W)
32. OTSEGO -- Gaylord Herald Times (Th)
33. PETOSKEY -- Petoskey News Review
34. REED CITY -- Osceola County Herald (Th)
35. ROGERS CITY -- Presque Isle County Advance (W)
36. ROSCOMMON -- Roscommon Herald News (Th)
37. SAULT EVENING NEWS
38. STANDISH -- The Arenac County Independent (W)
39. STEPHENSON -- Menominee County Journal (W)
40. THE ADVISOR
41. TRAVERSE CITY -- Traverse City Record Eagle
42. TRI-COUNTY BUYERS GUIDE
43. WEST BRANCH -- Ogemaw County Herald (Th)

## EXAMPLES

All printouts for sale 620999001

|              |            |            |
|--------------|------------|------------|
| SALE#<br>099 | YEAR<br>90 | STYP<br>01 |
|--------------|------------|------------|

CUTTING SPECIFICATIONS  
 \*\*\* SEE ATTACHED SHEET FOR CUTTING SPECIFICATIONS

| SPECIES                                          | CODE | PRODUCT | CODE | UNIT | CODE | UNIT PRICE | ESTIMATED VOLUME | APPRAISED VALUE |
|--------------------------------------------------|------|---------|------|------|------|------------|------------------|-----------------|
| *** SEE ATTACHED SHEET FOR DESCRIPTION OF TIMBER |      |         |      |      |      |            |                  |                 |
|                                                  |      |         |      |      |      | MBF...     | 0.00             |                 |
| TOTAL                                            |      |         |      |      |      | CORDS...   | 0.00             | \$ 0.00         |

**TIMBER SALE PROPOSAL : 62-099-90-01**

| DESCRIPTION OF TIMBER |      |          |      |      |      |            |                  |                 |
|-----------------------|------|----------|------|------|------|------------|------------------|-----------------|
| SPECIES               | CODE | PRODUCT  | CODE | UNIT | CODE | UNIT PRICE | ESTIMATED VOLUME | APPRAISED VALUE |
| SUGAR MAPLE           | 01   | SAWLOGS  | 01   | MBF  | 01   | 126.00     | 0.80             | 100.80          |
| RED MAPLE             | 03*  | SAWLOGS  | 01   | MBF  | 01   | 84.00      | 56.90            | 4779.60         |
| BEECH                 | 07   | SAWLOGS  | 01   | MBF  | 01   | 94.50      | 1.30             | 122.85          |
| RED OAK               | 08*  | SAWLOGS  | 01   | MBF  | 01   | 94.50      | 148.90           | 14071.05        |
| WHITE OAK             | 09   | SAWLOGS  | 01   | MBF  | 01   | 105.00     | 6.90             | 724.50          |
| PAPER BIRCH           | 10   | SAWLOGS  | 01   | MBF  | 01   | 73.50      | 0.80             | 58.80           |
| Q. ASPEN              | 11   | SAWLOGS  | 01   | MBF  | 01   | 63.00      | 1.10             | 69.30           |
| B.T. ASPEN            | 12*  | SAWLOGS  | 01   | MBF  | 01   | 73.50      | 127.50           | 9371.25         |
| WHITE PINE            | 30   | SAWLOGS  | 01   | MBF  | 01   | 84.00      | 1.10             | 92.40           |
| RED PINE              | 31   | SAWLOGS  | 01   | MBF  | 01   | 78.75      | 7.00             | 551.25          |
| BLACK CHERRY          | 49   | SAWLOGS  | 01   | MBF  | 01   | 89.25      | 2.50             | 223.13          |
| SUGAR MAPLE           | 01*  | PULPWOOD | 02   | CORD | 02   | 8.50       | 29.70            | 252.45          |
| RED MAPLE             | 03*  | PULPWOOD | 02   | CORD | 02   | 8.50       | 832.00           | 7072.00         |
| YELLOW BIRCH          | 04   | PULPWOOD | 02   | CORD | 02   | 6.80       | 3.40             | 23.12           |
| BEECH                 | 07   | PULPWOOD | 02   | CORD | 02   | 6.38       | 3.50             | 22.33           |
| RED OAK               | 08*  | PULPWOOD | 02   | CORD | 02   | 10.20      | 422.80           | 4312.56         |
| WHITE OAK             | 09   | PULPWOOD | 02   | CORD | 02   | 9.35       | 36.70            | 343.15          |
| PAPER BIRCH           | 10   | PULPWOOD | 02   | CORD | 02   | 12.75      | 22.50            | 286.88          |
| Q. ASPEN              | 11*  | PULPWOOD | 02   | CORD | 02   | 12.75      | 233.20           | 2973.30         |
| B.T. ASPEN            | 12*  | PULPWOOD | 02   | CORD | 02   | 12.75      | 2197.90          | 28023.23        |
| WHITE PINE            | 30   | PULPWOOD | 02   | CORD | 02   | 5.52       | 30.00            | 165.60          |
| RED PINE              | 31   | PULPWOOD | 02   | CORD | 02   | 8.07       | 2.00             | 16.14           |
| BLACK CHERRY          | 49   | PULPWOOD | 02   | CORD | 02   | 7.23       | 54.30            | 392.59          |
|                       |      |          |      |      |      | MBF...     | 354.80           |                 |
| TOTAL                 |      |          |      |      |      | CORDS...   | 3868.00          | \$ 74048.26     |

TMBSALE 08/10/1992 13:09

# TIMBER SALE 62-099-90-01 PROPOSAL - CONTINUATION

## PRE-CRUISE SALE INFORMATION

Number of Plots Taken ..... 166  
 Determined By: ☒ Rule ☐ Formula

Coefficient of variation is obtained by  
☒ Similar Stand  
☐ Operations Inventory Plots  
☐ Reconnaissance Plots  
☐ Historical Data

B. Allowable Error (RE) Used 10  
 C. Coefficient of Variation (C) Used 70

## POST-CRUISE SALE INFORMATION

Mean (X) ..... 26.95  
 Variance (S) ..... 355.77  
 Standard Deviation ..... 18.86

Coefficient of variation ..... 70.00%  
 Achieved Error ..... 10.87%

## POST-CRUISE DATA FOR INDIVIDUAL STAND

| FOR ARE | CMPT NO. | STD NO. | COV TYP | BASAL AREA | ACRES | AGE | SITE INDEX | TYPE CUT  | MEAN (X) IN CORDS | STD. DEVIATION | COEF. OF VARIATION | ACHIEVED ERROR | MANAGEMENT OBJECTIVE |
|---------|----------|---------|---------|------------|-------|-----|------------|-----------|-------------------|----------------|--------------------|----------------|----------------------|
| 62      | 140      | 003     | A6      | 95         | 8.0   | 69  | 57         | Final har | 27.8              | 26.5           | 95.3               | 51.0           | Aspen                |
| 62      | 140      | 006     | A6      | 103        | 25.0  | 52  | 82         | Final har | 28.1              | 21.4           | 76.1               | 34.9           | Aspen                |
| 62      | 140      | 019     | A6      | 107        | 45.0  | 49  | 62         | Final har | 29.1              | 19.6           | 67.4               | 24.6           | Aspen                |
| 62      | 140      | 023     | A6      | 78         | 7.0   | 54  | 72         | Improveme | 22.3              | 12.6           | 56.9               | 34.3           | Aspen                |
| 62      | 140      | 047     | A6      | 103        | 16.0  | 51  | 60         | Final har | 28.3              | 19.1           | 67.5               | 33.8           | Aspen                |
| 62      | 140      | 057     | A6      | 107        | 22.0  | 69  | 65         | Seedtree  | 31.6              | 21.0           | 66.4               | 34.3           | Aspen                |
| 62      | 140      | 231     | A6      | 96         | 18.0  | 54  | 72         | Shelterwo | 26.9              | 19.5           | 72.4               | 28.4           | Aspen                |
| 62      | 140      | 471     | A6      | 67         | 6.0   | 51  | 60         | Thinning  | 17.4              | 10.5           | 60.3               | 36.4           | Aspen                |
| 62      | 140      | 472     | A6      | 97         | 15.0  | 51  | 60         | Selection | 27.0              | 14.9           | 55.3               | 26.8           | Aspen                |
| 62      | 140      | 601     | A6      | 91         | 4.0   | 52  | 82         | Final har | 22.2              | 11.9           | 53.7               | 40.6           | Aspen                |

JUSTIFICATION FOR NOT CUTTING IN THE CURRENT ENTRY YEAR

AREA FOREST MANAGER COMMENTS

DISTRICT FOREST MANAGER COMMENTS

☐ APPROVED ☐ DISAPPROVED

SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

REGIONAL FOREST MANAGER COMMENTS

☐ APPROVED ☐ DISAPPROVED

SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

## WILDLIFE DIVISION

|                             |                  |                                                                        |                           |
|-----------------------------|------------------|------------------------------------------------------------------------|---------------------------|
| DISTRICT                    | QUARTER TOWNSHIP | DEER MANAGEMENT AREA                                                   |                           |
| PERCENTAGE OF SALE          | WITHIN DEERYARD  | WITHIN 1/2 MILE OF DEERYARD                                            | OVER 1/2 MILE OF DEERYARD |
| AREA REPRESENTATIVE REMARKS |                  | <input type="checkbox"/> APPROVED <input type="checkbox"/> DISAPPROVED |                           |
| SIGNATURE _____             |                  | DATE _____                                                             |                           |
| DISTRICT WILDLIFE REMARKS   |                  | <input type="checkbox"/> APPROVED <input type="checkbox"/> DISAPPROVED |                           |
| SIGNATURE _____             |                  | DATE _____                                                             |                           |



CUTTING SPECIFICATIONS

|                                           |            |                               |            |            |
|-------------------------------------------|------------|-------------------------------|------------|------------|
|                                           |            | SALE#<br>099                  | YEAR<br>90 | STYP<br>01 |
| STATE FOREST AREA<br>KALKASKA FOREST AREA | CODE<br>62 | SALE NAME<br>TRAIL HEAD ASPEN |            |            |

GENERAL CUTTING SPECIFICATIONS

1. Within the designated sale area as shown on the attached map and bounded by
2. Cut all trees that will yield one or more 100" pulpwood sticks with a minimum top diameter of four (4) inches.
3. Cut all trees that are two (2) inches or more in diameter measured at a point four and one-half (4.5) feet above ground level regardless of merchantability.
4. Cut all trees that are 2 inches or more in diameter measured at a point 4½ feet above ground level regardless of merchantability. The amount of \$ . will be credited on the final payment for cutting nonmerchantable trees as required by the contract.
5. All operations including slash, landings, and skid trails are to be confined to within the sale area.
6. No brush or logging debris is to be left on maintained wildlife opening. Any damage to the opening shall be repaired by fertilization and seeding according to specifications of the Area Wildlife Biologist.  
  
The Area Forest Manager must be contacted prior to cutting for approval of location of access roads and landings.
8. Do not cut the painted boundary line trees.
9. Each unit must be paid for prior to cutting.
10. Payment units are to be cut in numerical order and inspected by the Area Forest Manager prior to cutting in next unit.
11. No trees are to be felled outside the sale area and all slash is to be kept at least 25 feet back from the blue paint line.
12. No decking within 50 feet of road or highway.
13. No decking, skidding, or trucking is to be done on the (powerline, pipeline) right-of-way without approval of the utility company.
14. All slash must be removed at least ten feet from existing trail roads, trails, pathways etc.
15. All slash must be removed from the right-of-way.
16. All slash must be removed at least 50 feet from the cleared portion of road or highway right-of-way.
17. All resulting slash must be removed from cleared oil and gas well sites.

CUTTING SPECIFICATIONS

|                                          |  |              |                               |            |
|------------------------------------------|--|--------------|-------------------------------|------------|
|                                          |  | SALE#<br>099 | YEAR<br>90                    | STYP<br>01 |
| STATE FOREST AREA<br>ALKASKA FOREST AREA |  | CODE<br>62   | SALE NAME<br>TRAIL HEAD ASPEN |            |

18. Company must be contacted by the successful bidder for location of and permission to cross pipelines with new roads or equipment.
19. Tree length skidding or skidding of logs over 17 feet in length is not permissible unless approved by the Area Forest Manager.
20. All existing trail roads must be left in suitable condition for two-wheel drive traffic after the sale is completed.
21. All new roads built into the sale must be blocked to vehicle traffic by a 4' high berm constructed of stumps and logs covered with earth.
22. Operations on this permit may not be allowed during the National Guard summer training schedule. The contractor must check with the Area Forest Manager who will coordinate the cutting schedule with the Military.
23. This sale is adjacent to a young jack pine stand which may be used by the endangered species Kirtland's Warbler. The Department reserves the option to temporarily restrict all harvesting operations in a buffer zone of up to 500 feet in width if it is determined that a Warbler territory has been established in an adjacent stand. The restricted period, if put into effect, would apply from to .
24. road(s) must be maintained in a condition as good or better than the condition prior to beginning operations.
25. All harvesting operations are limited to the period of / / to / / .
26. All trees marked with yellow paint must be cut.
27. The sale area has received damaged from . The purchaser should harvest the wood as soon as possible. The Department of Natural Resources is held free of responsibility of any further damage or deterioration due to delay in harvesting.
28. Permission for access across private land is the responsibility of the purchaser. A copy of the written permission from the private land-owner must be brought to the Forest Area Office within 30 days of the bid opening.
29. No tracked or wheeled vehicles shall be operated through or within 50 feet of creek/stream/river except on an approved crossing site. Such sites shall be constructed in accordance with the specifications on the appropriate permits which shall be obtained by the Forest Management Division.
30. Trees marked with orange paint and/or orange triangular markers to designate an ORV trail shall not be cut. ORV trails must be kept free of logging slash.

CUTTING SPECIFICATIONS

|                                         |            |                               |            |            |
|-----------------------------------------|------------|-------------------------------|------------|------------|
|                                         |            | SALE#<br>099                  | YEAR<br>90 | STYP<br>01 |
| STATE FOREST AREA<br>ALASKA FOREST AREA | CODE<br>62 | SALE NAME<br>TRAIL HEAD ASPEN |            |            |

31. All pipelines/gas storage injection sites are to remain free of slash.
32. Logging activities on \_\_\_\_\_ road may be restricted by the Area Forest Manager during spring breakup.
33. No dumping of waste oil or hydraulic fluid resulting from on-site maintenance of equipment is allowed on State land.
34. Damage to the residual reproduction and trees shall be less than \_\_\_\_\_ % of existing trees. A penalty of \$ \_\_\_\_\_ per tree including seedlings and saplings damaged during logging operations shall be assessed when the number of damaged trees exceeds \_\_\_\_\_ per acre.
35. In the event drought creates a high risk of bark beetle damage, no pine are to be cut during the period March 1 through May 31 unless all portions of the tree greater than two inches in diameter are removed from the sale area, reduced to chips, or treated to the satisfaction of the Area Forest Manager, within fifteen days of being severed from the stump. The Department of Natural Resources will enforce this requirement when the risk of damage warrants.
36. Trees marked with confidence markers and/or orange fluorescent paint over a blaze along the ORV trail which runs through the timber sale area shall not be cut. The ORV trail shall be kept marked and free of slash at all times.
37. The Michigan Department of Natural Resources is not responsible for the loss of forest products occurring during the term of this contract due to insects, diseases, or weather conditions.
38. Damage to residual trees (defined as breaking of cambium layer, broken tops, bending trees from their natural position) will not be tolerated. If more than 5% of the residual trees are damaged, a charge of \$10.00 per pulp tree (5-9" diameter) and \$25.00 per log tree (over 10" diameter) will be assessed. If more than 25% of the trees (from 1/4" to 5" diameter) are damaged, a charge of \$300.00 per acre will be assessed.

TMBRSale 08/10/1992 13:09

STUMPAGE APPRAISAL  
CORDWOOD (CORDS)

Truck Sale Number: 62-099-90-01

Appraised by: \_\_\_\_\_

| Points Allotted<br>to Factors<br>Species | Fell<br>&<br>Buck | Skid<br>Prob. | Skid<br>Dist. | Road<br>Maint. | Distance<br>to<br>Road Mill | Market<br>Trend | Total<br>Factor | -----<br>Avg. | PRICE<br>Calc. | -----<br>Used | Estimated<br>Volume | Species<br>Value |          |
|------------------------------------------|-------------------|---------------|---------------|----------------|-----------------------------|-----------------|-----------------|---------------|----------------|---------------|---------------------|------------------|----------|
| SUGAR MAPLE                              | 0.10              | 0.10          | 0.08          | 0.10           | 0.12                        | 0.05            | 0.30            | 0.85          | 10.00          | 8.50          | 8.50                | 29.70            | 252.45   |
| RED MAPLE                                | 0.10              | 0.10          | 0.08          | 0.10           | 0.12                        | 0.05            | 0.30            | 0.85          | 10.00          | 8.50          | 8.50                | 832.00           | 7072.00  |
| YELLOW BIRCH                             | 0.10              | 0.10          | 0.08          | 0.10           | 0.12                        | 0.05            | 0.30            | 0.85          | 8.00           | 6.80          | 6.80                | 3.40             | 23.12    |
| BEECH                                    | 0.10              | 0.10          | 0.08          | 0.10           | 0.12                        | 0.05            | 0.30            | 0.85          | 7.50           | 6.38          | 6.38                | 3.50             | 22.33    |
| RED OAK                                  | 0.10              | 0.10          | 0.08          | 0.10           | 0.12                        | 0.05            | 0.30            | 0.85          | 12.00          | 10.20         | 10.20               | 422.80           | 4312.56  |
| WHITE OAK                                | 0.10              | 0.10          | 0.08          | 0.10           | 0.12                        | 0.05            | 0.30            | 0.85          | 11.00          | 9.35          | 9.35                | 36.70            | 343.15   |
| PAPER BIRCH                              | 0.10              | 0.10          | 0.08          | 0.10           | 0.12                        | 0.05            | 0.30            | 0.85          | 15.00          | 12.75         | 12.75               | 22.50            | 286.88   |
| Q. ASPEN                                 | 0.10              | 0.10          | 0.08          | 0.10           | 0.12                        | 0.05            | 0.30            | 0.85          | 15.00          | 12.75         | 12.75               | 233.20           | 2973.30  |
| B.T.ASPEN                                | 0.10              | 0.10          | 0.08          | 0.10           | 0.12                        | 0.05            | 0.30            | 0.85          | 15.00          | 12.75         | 12.75               | 2197.90          | 28023.23 |
| WHITE PINE                               | 0.10              | 0.10          | 0.08          | 0.10           | 0.12                        | 0.05            | 0.30            | 0.85          | 6.50           | 5.53          | 5.52                | 30.00            | 165.60   |
| RED PINE                                 | 0.10              | 0.10          | 0.08          | 0.10           | 0.12                        | 0.05            | 0.30            | 0.85          | 9.50           | 8.07          | 8.07                | 2.00             | 16.14    |
| BLACK CHERRY                             | 0.10              | 0.10          | 0.08          | 0.10           | 0.12                        | 0.05            | 0.30            | 0.85          | 8.50           | 7.22          | 7.23                | 54.30            | 392.59   |

Total Cordwood Volume: CORDS 3868.00

Total Value: \$ 43883.33

Additional Cost Justification and Stumpage Price:

TMBRSAL 08/10/1992 13:31

STUMPAGE APPRAISAL  
SAWLOG (MBF)

Timber Sale Number: 62-099-90-01

Appraised by: \_\_\_\_\_

| Points Allotted<br>to Factors<br>Species | Fell<br>&<br>Buck | Skid<br>Prob. | Skid<br>Dist. | Road<br>Maint. | Distance<br>to<br>Road Mill | Sawlog<br>Qty. | Qual. | Market<br>Trend | Total<br>Factor | -----<br>Avg. | PRICE<br>Calc. | -----<br>Used | Estimated<br>Volume | Species<br>Value |          |
|------------------------------------------|-------------------|---------------|---------------|----------------|-----------------------------|----------------|-------|-----------------|-----------------|---------------|----------------|---------------|---------------------|------------------|----------|
| SUGAR MAPLE                              | 0.10              | 0.10          | 0.08          | 0.10           | 0.12                        | 0.05           | 0.10  | 0.10            | 0.30            | 1.05          | 120.00         | 126.00        | 126.00              | 0.80             | 100.80   |
| RED MAPLE                                | 0.10              | 0.10          | 0.08          | 0.10           | 0.12                        | 0.05           | 0.10  | 0.10            | 0.30            | 1.05          | 80.00          | 84.00         | 84.00               | 56.90            | 4779.60  |
| BEECH                                    | 0.10              | 0.10          | 0.08          | 0.10           | 0.12                        | 0.05           | 0.10  | 0.10            | 0.30            | 1.05          | 90.00          | 94.50         | 94.50               | 1.30             | 122.85   |
| RED OAK                                  | 0.10              | 0.10          | 0.08          | 0.10           | 0.12                        | 0.05           | 0.10  | 0.10            | 0.30            | 1.05          | 90.00          | 94.50         | 94.50               | 148.90           | 14071.05 |
| WHITE OAK                                | 0.10              | 0.10          | 0.08          | 0.10           | 0.12                        | 0.05           | 0.10  | 0.10            | 0.30            | 1.05          | 100.00         | 105.00        | 105.00              | 6.90             | 724.50   |
| PAPER BIRCH                              | 0.10              | 0.10          | 0.08          | 0.10           | 0.12                        | 0.05           | 0.10  | 0.10            | 0.30            | 1.05          | 70.00          | 73.50         | 73.50               | 0.80             | 58.80    |
| O. ASPEN                                 | 0.10              | 0.10          | 0.08          | 0.10           | 0.12                        | 0.05           | 0.10  | 0.10            | 0.30            | 1.05          | 60.00          | 63.00         | 63.00               | 1.10             | 69.30    |
| B.T. ASPEN                               | 0.10              | 0.10          | 0.08          | 0.10           | 0.12                        | 0.05           | 0.10  | 0.10            | 0.30            | 1.05          | 70.00          | 73.50         | 73.50               | 127.50           | 9371.25  |
| WHITE PINE                               | 0.10              | 0.10          | 0.08          | 0.10           | 0.12                        | 0.05           | 0.10  | 0.10            | 0.30            | 1.05          | 80.00          | 84.00         | 84.00               | 1.10             | 92.40    |
| RED PINE                                 | 0.10              | 0.10          | 0.08          | 0.10           | 0.12                        | 0.05           | 0.10  | 0.10            | 0.30            | 1.05          | 75.00          | 78.75         | 78.75               | 7.00             | 551.25   |
| BLACK CHERRY                             | 0.10              | 0.10          | 0.08          | 0.10           | 0.12                        | 0.05           | 0.10  | 0.10            | 0.30            | 1.05          | 85.00          | 89.25         | 89.25               | 2.50             | 223.13   |

Total Sawtimber Volume: MBF 354.80  
Total Value: \$ 30164.93

Additional Cost Justification and Stumpage Price:

TMBRSAL 08/10/1992 13:31

# Stand Volume Sampling Report

Timber Sale Number: 62-099-90-01

Printed: 08/10/1992

| Stand | Acres | Avg.<br>B/A | Mean<br>Cords/Acre | Standard<br>Deviation | Coeff. of<br>Variation | Achieved<br>Error | Num.<br>Points |
|-------|-------|-------------|--------------------|-----------------------|------------------------|-------------------|----------------|
| 3     | 8.00  | 95.71       | 27.79              | 26.49                 | 95.31                  | 50.95             | 14             |
| 6     | 25.00 | 103.16      | 28.07              | 21.36                 | 76.07                  | 34.90             | 19             |
| 19    | 45.00 | 106.67      | 29.15              | 19.65                 | 67.41                  | 24.61             | 30             |
| 23    | 7.00  | 78.18       | 22.26              | 12.65                 | 56.86                  | 34.29             | 11             |
| 47    | 16.00 | 102.50      | 28.28              | 19.10                 | 67.54                  | 33.77             | 16             |
| 57    | 22.00 | 106.67      | 31.61              | 20.98                 | 66.38                  | 34.28             | 15             |
| 231   | 18.00 | 96.92       | 26.92              | 19.48                 | 72.36                  | 28.38             | 26             |
| 471   | 6.00  | 67.27       | 17.35              | 10.47                 | 60.33                  | 36.38             | 11             |
| 472   | 15.00 | 97.65       | 26.95              | 14.91                 | 55.32                  | 26.83             | 17             |
| 601   | 4.00  | 91.43       | 22.24              | 11.95                 | 53.74                  | 40.62             | 7              |

\*\*\*\*\*

## Stratified Sampling Report

Timber Sale Number: 62-099-90-01

| Stratum | Acres  | Mean<br>Cords/Acre | Standard<br>Deviation | Coeff. of<br>Variation | Achieved<br>Error | Num.<br>Points |
|---------|--------|--------------------|-----------------------|------------------------|-------------------|----------------|
| 1       | 166.00 | 26.95              | 18.86                 | 70.00                  | 10.87             | 166            |

## Sampling Summary

Mean Cds/Acre: 26.95  
Variance: 355.77  
Std. Dev.: 18.86  
Coefficient of Var: 70.00  
Stratified Ach. Err.: 10.87

TIMBER SALE 08/10/1992 13:31

# VISUAL IMPACT RESOURCE EVALUATION

## DEPARTMENT OF NATURAL RESOURCES FOREST MANAGEMENT DIVISION

DATE  
08/10/1992

COMPARTMENT NO.  
140

FOREST AREA

KALKASKA FOREST ARE

### 1. PROPOSED ACTION

☒ Timber Sale No. 62-099-90-01 Forest Treatment Proposal No. \_\_\_\_\_

### 2. PREVIOUS COMPLAINTS: Have there been complaints on this or similar projects in nearby areas?

☐ No ☒ YES If yes, explain how complaint was handled/resolved.

### 3. LAND USE CHARACTERISTICS: Is the proposed action in an area of rapid land use change?

No ☒ YES If yes, what is change to?

☒ Recreation Land use. ☐ Residential Land Use. ☐ Commercial Land Use.

### 4. OPERATIONS INVENTORY - Influence zone designation:

☒ General Forest. ☐ Undedicated. ☐ Other Wildlife - specify.  
☐ Travel. ☐ Winter Deer Range.  
☐ Water. ☐ Developed by lease or long term agreement.  
☐ Wild or Natural Areas. ☐ Recreation sites - specify.  
☐ Other - specify (i.e. insect damage area).

### 5. STAND MANAGEMENT OBJECTIVE:

☒ Timber. ☐ Wildlife. ☐ Recreation.  
☐ Other - specify.

### 6. VISUAL IMPACT - Criteria:

☐ CRITICAL:  
☐ The site falls within or is adjacent to an area used extensively by residents of the area.  
☐ The site is identified as having historical significance.  
☐ The area is unique because of immediate or distant views.  
☐ Other - specify

☒ SIGNIFICANT:  
☒ The site is adjacent to, or in close proximity to a travel influence, water influence zone, recreation influence zone, or privately occupied ownership(s).  
☐ Even aged management (acreage to be treated in excess of 40 acres).

☐ INSIGNIFICANT:  
☐ The site is within the General Forest Zone.  
☐ Uneven aged management.  
☐ Even aged management (acreage treated to be 40 acres or less).

### 7. STEPS TAKEN TO: (explain).

Reduce Visual Impact. ☐ Gain Public Acceptance.  
**LEFT A BUFFER ZONE.**

### 8. MANAGEMENT AREA MAP:

Attach map with sufficient detail to explain the management action proposed. Include heavily used roads, pathways, trails, campgrounds, water, topography, etc. Show locations of subdivisions, homes and cabins.

### 9. SIGNATURES:

Evaluator \_\_\_\_\_

Date \_\_\_\_\_

Area Forest Manager \_\_\_\_\_

Date \_\_\_\_\_

## STATE FOREST TIMBER SALE CONTRACT

Required under authority of Act 126  
P.A. 1939, as amended; and ACT 178  
P.A. 1935, as amended.

|                                                                                                                                                                                                                                                                                                                                                                         |  |            |                                               |            |            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------|-----------------------------------------------|------------|------------|
| STATE FOREST AREA<br>ALASKA FOREST AREA                                                                                                                                                                                                                                                                                                                                 |  | CODE<br>62 | SALE#<br>099                                  | YEAR<br>90 | STYP<br>01 |
| PURCHASER (LAST, FIRST, MIDDLE)<br>DOE JOHN                                                                                                                                                                                                                                                                                                                             |  |            | SOC. SEC. OR FED. I.D. NO.<br>522785158       |            |            |
| ADDRESS (NUMBER AND STREET)<br>LANSING                                                                                                                                                                                                                                                                                                                                  |  |            | (CITY) (STATE) (ZIP CODE)<br>LANSING MI 48909 |            |            |
| LEGAL DESCRIPTION OF SALE<br>T 23N R 9W SEC 25<br>SEC 26                                                                                                                                                                                                                                                                                                                |  |            | STAND(S)<br>003 006 019 023 047               |            |            |
| (ADDITIONAL DESCRIPTION)<br>T 23N R 9W SEC 35<br>SEC 36                                                                                                                                                                                                                                                                                                                 |  |            | STAND(S)<br>057 231 471 472 601               |            |            |
| BOND TYPE<br>1=Cash; 2=Surety; 3=Lr. of Credit; 4=Cert. of Deposit<br>Cash Bond                                                                                                                                                                                                                                                                                         |  |            | COUNTY<br>WEXFORD                             |            |            |
| DATE ISSUED<br>MO DAY YEAR<br>07 31 92                                                                                                                                                                                                                                                                                                                                  |  |            | ENTRY<br>YEAR<br>91                           |            |            |
| DATE EXPIRES<br>MO DAY YEAR<br>07 30 94                                                                                                                                                                                                                                                                                                                                 |  |            | TYPE OF CUT<br>Final harvest                  |            |            |
| CODE<br>1                                                                                                                                                                                                                                                                                                                                                               |  |            | CODE<br>01                                    |            |            |
| SALE NAME<br>TRAIL HEAD ASPEN                                                                                                                                                                                                                                                                                                                                           |  |            | PERFORMANCE BOND<br>\$ 3702.00                |            |            |
| PAYMENT SCHEDULE: The bond and 10% of Purchase Price as down payment must be paid within 21 days of the sale date. If no cutting takes place the downpayment will not be refunded. Cutting in any sale without the required advance payment will be assessed an additional 10% total value of the unit for the first offense and 20% for the second offense as penalty. |  |            | APPRAISED VALUE<br>\$ 74048.28                |            |            |
| SINGLE UNIT SALE: The 10% down payment will be applied toward total Purchase Price. The remainder of Purchase Price must be paid before cutting begins.                                                                                                                                                                                                                 |  |            | PURCHASE PRICE<br>\$ 82359.84                 |            |            |
| X MULTIPLE UNIT SALE: The 10% down payment will be applied toward the first unit to be cut. Payment for value of a unit must be made before cutting begins in that unit. Unit values listed below.                                                                                                                                                                      |  |            | DOWN PAYMENT<br>\$ 8235.98                    |            |            |
| No. 1 \$ 11530.38 No. 2 \$ 23060.76 No. 3 \$ 18119.17 No. 4 \$ 15648.37 No. 5 \$ 14001.17<br>No. 6 \$ No. 7 \$ No. 8 \$ No. 9 \$ No. 10 \$<br>No. 11 \$ No. 12 \$ No. 13 \$ No. 14 \$ No. 15 \$<br>No. 16 \$ No. 17 \$ No. 18 \$ No. 19 \$ No. 20 \$<br>No. 21 \$ No. 22 \$ No. 23 \$ No. 24 \$ No. 25 \$                                                               |  |            | TYPE OF PAYMENT<br>Lump Sum                   |            |            |
| CODE<br>1                                                                                                                                                                                                                                                                                                                                                               |  |            | CODE<br>1                                     |            |            |

## CUTTING SPECIFICATIONS

\*\*\* SEE ATTACHED SHEET(S) FOR CUTTING SPECIFICATIONS

## DESCRIPTION OF TIMBER

| SPECIES                                          | CODE | PRODUCT | CODE | UNIT | CODE | PURCHASE<br>UNIT PRICE | ESTIMATED<br>VOLUME |
|--------------------------------------------------|------|---------|------|------|------|------------------------|---------------------|
| *** SEE ATTACHED SHEET FOR DESCRIPTION OF TIMBER |      |         |      |      |      |                        |                     |

I have read the attached cutting specifications governing this contract and the general conditions 1 through 15 that apply to all timber contracts.

I hereby agree to purchase from the State of Michigan at the rate and in strict conformity with all and singular requirements and conditions as set forth above, all the timber designated for cutting under the terms of this contract from above described lands.

APPROVED BY DEPARTMENT OF NATURAL RESOURCES, STATE OF MICHIGAN

SIGNATURE OF PURCHASER

DATE

AREA FOREST MANAGER

DATE

AUTHORIZED DEPARTMENT OF NATURAL RESOURCES REP.

DATE

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**DESCRIPTION OF TIMBER**

| SPECIES      | CODE | PRODUCT  | CODE | UNIT | CODE | PURCHASE<br>UNIT PRICE | ESTIMATED<br>VOLUME |
|--------------|------|----------|------|------|------|------------------------|---------------------|
| IGAR MAPLE   | 01   | SAWLOGS  | 01   | MBF  | 01   | 126.00                 | 0.80                |
| D MAPLE      | 03*  | SAWLOGS  | 01   | MBF  | 01   | 90.00                  | 56.90               |
| BEECH        | 07   | SAWLOGS  | 01   | MBF  | 01   | 94.50                  | 1.30                |
| RED OAK      | 08*  | SAWLOGS  | 01   | MBF  | 01   | 100.00                 | 148.90              |
| WHITE OAK    | 09   | SAWLOGS  | 01   | MBF  | 01   | 105.00                 | 6.90                |
| PAPER BIRCH  | 10   | SAWLOGS  | 01   | MBF  | 01   | 73.50                  | 0.80                |
| Q. ASPEN     | 11   | SAWLOGS  | 01   | MBF  | 01   | 63.00                  | 1.10                |
| B. T. ASPEN  | 12*  | SAWLOGS  | 01   | MBF  | 01   | 75.00                  | 127.50              |
| WHITE PINE   | 30   | SAWLOGS  | 01   | MBF  | 01   | 84.00                  | 1.10                |
| RED PINE     | 31   | SAWLOGS  | 01   | MBF  | 01   | 78.75                  | 7.00                |
| BLACK CHERRY | 49   | SAWLOGS  | 01   | MBF  | 01   | 89.25                  | 2.50                |
| SUGAR MAPLE  | 01*  | PULPWOOD | 02   | CORD | 02   | 9.00                   | 29.70               |
| RED MAPLE    | 03*  | PULPWOOD | 02   | CORD | 02   | 12.00                  | 832.00              |
| YELLOW BIRCH | 04   | PULPWOOD | 02   | CORD | 02   | 6.80                   | 3.40                |
| BEECH        | 07   | PULPWOOD | 02   | CORD | 02   | 6.38                   | 3.50                |
| RED OAK      | 08*  | PULPWOOD | 02   | CORD | 02   | 12.00                  | 422.80              |
| WHITE OAK    | 09   | PULPWOOD | 02   | CORD | 02   | 9.35                   | 36.70               |
| PAPER BIRCH  | 10   | PULPWOOD | 02   | CORD | 02   | 12.75                  | 22.50               |
| Q. ASPEN     | 11*  | PULPWOOD | 02   | CORD | 02   | 15.00                  | 233.20              |
| B. T. ASPEN  | 12*  | PULPWOOD | 02   | CORD | 02   | 14.00                  | 2197.90             |
| WHITE PINE   | 30   | PULPWOOD | 02   | CORD | 02   | 5.52                   | 30.00               |
| RED PINE     | 31   | PULPWOOD | 02   | CORD | 02   | 8.07                   | 2.00                |
| BLACK CHERRY | 49   | PULPWOOD | 02   | CORD | 02   | 7.23                   | 54.30               |

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# CUTTING SPECIFICATIONS

|                                      |  |            |                               |      |
|--------------------------------------|--|------------|-------------------------------|------|
|                                      |  | SALE #     | YEAR                          | STYP |
|                                      |  | 099        | 90                            | 01   |
| TE FOREST AREA<br>ALASKA FOREST AREA |  | CODE<br>62 | SALE NAME<br>TRAIL HEAD ASPEN |      |

## GENERAL CUTTING SPECIFICATIONS

1. Within the designated sale area as shown on the attached map and bounded by
2. Cut all trees that will yield one or more 100" pulpwood sticks with a minimum top diameter of four (4) inches.
3. Cut all trees that are two (2) inches or more in diameter measured at a point four and one-half (4.5) feet above ground level regardless of merchantability.
4. Cut all trees that are 2 inches or more in diameter measured at a point 4½ feet above ground level regardless of merchantability. The amount of \$ . will be credited on the final payment for cutting nonmerchantable trees as required by the contract.
5. All operations including slash, landings, and skid trails are to be confined to within the sale area.
6. No brush or logging debris is to be left on maintained wildlife opening. Any damage to the opening shall be repaired by fertilization and seeding according to specifications of the Area Wildlife Biologist.
7. The Area Forest Manager must be contacted prior to cutting for approval of location of access roads and landings.
8. Do not cut the painted boundary line trees.
9. Each unit must be paid for prior to cutting.
10. Payment units are to be cut in numerical order and inspected by the Area Forest Manager prior to cutting in next unit.
11. No trees are to be felled outside the sale area and all slash is to be kept at least 25 feet back from the blue paint line.
12. No decking within 50 feet of road or highway.
13. No decking, skidding, or trucking is to be done on the (powerline, pipeline) right-of-way without approval of the utility company.
14. All slash must be removed at least ten feet from existing trail roads, trails, pathways etc.
15. All slash must be removed from the right-of-way.
16. All slash must be removed at least 50 feet from the cleared portion of road or highway right-of-way.
17. All resulting slash must be removed from cleared oil and gas well sites.

CUTTING SPECIFICATIONS

|                                          |  |              |                               |            |
|------------------------------------------|--|--------------|-------------------------------|------------|
|                                          |  | SALE#<br>099 | YEAR<br>90                    | STYP<br>01 |
| STATE FOREST AREA<br>ALKASKA FOREST AREA |  | CODE<br>62   | SALE NAME<br>TRAIL HEAD ASPEN |            |

18. Company must be contacted by the successful bidder for location of and permission to cross pipelines with new roads or equipment.
19. Tree length skidding or skidding of logs over 17 feet in length is not permissible unless approved by the Area Forest Manager.
20. All existing trail roads must be left in suitable condition for two-wheel drive traffic after the sale is completed.
21. All new roads built into the sale must be blocked to vehicle traffic by a 4' high berm constructed of stumps and logs covered with earth.
22. Operations on this permit may not be allowed during the National Guard summer training schedule. The contractor must check with the Area Forest Manager who will coordinate the cutting schedule with the Military.
23. This sale is adjacent to a young jack pine stand which may be used by the endangered species Kirtland's Warbler. The Department reserves the option to temporarily restrict all harvesting operations in a buffer zone of up to 500 feet in width if it is determined that a Warbler territory has been established in an adjacent stand. The restricted period, if put into effect, would apply from to .
24. road(s) must be maintained in a condition as good or better than the condition prior to beginning operations.  
All harvesting operations are limited to the period of / / to / / .
26. All trees marked with yellow paint must be cut.
27. The sale area has received damaged from . The purchaser should harvest the wood as soon as possible. The Department of Natural Resources is held free of responsibility of any further damage or deterioration due to delay in harvesting.
28. Permission for access across private land is the responsibility of the purchaser. A copy of the written permission from the private land-owner must be brought to the Forest Area Office within 30 days of the bid opening.
29. No tracked or wheeled vehicles shall be operated through or within 50 feet of creek/stream/river except on an approved crossing site. Such sites shall be constructed in accordance with the specifications on the appropriate permits which shall be obtained by the Forest Management Division.
30. Trees marked with orange paint and/or orange triangular markers to designate an ORV trail shall not be cut. ORV trails must be kept free of logging slash.

CUTTING SPECIFICATIONS

|                                          |            |                               |            |            |
|------------------------------------------|------------|-------------------------------|------------|------------|
|                                          |            | SALE#<br>099                  | YEAR<br>90 | STYP<br>01 |
| STATE FOREST AREA<br>ALKASKA FOREST AREA | CODE<br>62 | SALE NAME<br>TRAIL HEAD ASPEN |            |            |

31. All pipelines/gas storage injection sites are to remain free of slash.
32. Logging activities on \_\_\_\_\_ road may be restricted by the Area Forest Manager during spring breakup.
33. No dumping of waste oil or hydraulic fluid resulting from on-site maintenance of equipment is allowed on State land.
34. Damage to the residual reproduction and trees shall be less than \_\_\_\_\_ % of existing trees. A penalty of \$ \_\_\_\_\_ per tree including seedlings and saplings damaged during logging operations shall be assessed when the number of damaged trees exceeds \_\_\_\_\_ per acre.
35. In the event drought creates a high risk of bark beetle damage, no pine are to be cut during the period March 1 through May 31 unless all portions of the tree greater than two inches in diameter are removed from the sale area, reduced to chips, or treated to the satisfaction of the Area Forest Manager, within fifteen days of being severed from the stump. The Department of Natural Resources will enforce this requirement when the risk of damage warrants.
36. Trees marked with confidence markers and/or orange fluorescent paint over a blaze along the ORV trail which runs through the timber sale area shall not be cut. The ORV trail shall be kept marked and free of slash at all times.
37. The Michigan Department of Natural Resources is not responsible for the loss of forest products occurring during the term of this contract due to insects, diseases, or weather conditions.  
  
Damage to residual trees (defined as breaking of cambium layer, broken tops, bending trees from their natural position) will not be tolerated. If more than 5% of the residual trees are damaged, a charge of \$10.00 per pulp tree (5-9" diameter) and \$25.00 per log tree (over 10" diameter) will be assessed. If more than 25% of the trees (from 1/4" to 5" diameter) are damaged, a charge of \$300.00 per acre will be assessed.

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1. NOTIFICATION: The purchaser shall notify the Area Forest Manager of the Department of Natural Resources before cutting begins.
2. INCLUDED TIMBER: Cutting or removal of any forest products not specifically included or covered by this contract shall be a violation of Act 126, P.A. 1939, as amended.

TITLE: Title to all timber included in this sale shall remain in the State of Michigan until it has been paid for. Cut forest products remaining on State land six months after the timber sale expiration date will become the property of the State of Michigan unless written permission for further storage is received from the Area Forest Manager. All uncut timber shall become the property of the State of Michigan upon contract expiration unless a contract extension has been granted.

4. PAYMENTS: Forest products cut under this contract shall be paid for according to the specified conditions and prices. Checks, money orders, or drafts shall be made payable to the State of Michigan and submitted to the Area Forest Manager. The Area Forest Manager shall issue an official prenumbered receipt for each payment received. On scaled sales forest products will be placed for measurement as instructed by the Area Forest Manager or his representative, and not removed from the designated place until measured and paid for at the specified stumpage prices. The Area Forest Manager may at his discretion, authorize the measurement and payment by other means. On Premeasurement sales, all required payment must be made prior to cutting in accordance with the specified payment schedule. Unless otherwise specified, all board foot content of sawlog size products will be determined by the International Log Rule in the northern Lower Peninsula, and the Scribner Log Rule in the Upper Peninsula.
5. UTILIZATION: Unless otherwise indicated on this contract, the Department of Natural Resources standards are based on utilization to a top diameter inside bark of 8 inches for sawlogs, and 4 inches for pulpwood. If not otherwise specified, the maximum stump height shall not exceed 24 inches for sawlogs or 12 inches for pulpwood. Higher stumps resulting from multiple stemmed trees may be left if authorized by the Area Forest Manager.
6. ROADS, LANDINGS, SKID TRAILS: Location and specifications of roads, landings and skid trails must be approved by the Area Forest Manager prior to their construction. Timber within the agreed upon construction limits shall be utilized by the purchaser and paid for at the specified sale prices. The purchasers shall maintain all existing roads in a condition equal to or better than they were prior to the sale. No equipment is to be operated over or through streams except on approved stream crossings. If the purchaser expects to discharge explosives, or excavate on any public highway or public utility or pipeline right-of-way or to operate logging equipment on any public utility or pipeline right-of-way, he/she shall give notice to the agency, persons, or company having such facilities on state or private land, in accordance with Act 53, Public Acts of 1974, Compiled Laws 460.701 to 460.718. Purchaser must contact the County Road Commission for any required permits to make use of a County Road right-of-way.
7. SLASH: In accordance with Act 35, Public Acts of 1955, all slash shall be removed from lands within 50 feet of the cleared portion of any road or highway under the jurisdiction of the Department of Transportation or a county road commission. Unless indicated elsewhere on this contract, all other slash shall be left as it falls except that no tops shall be left hanging in standing trees. Where slash disposal is required, it shall be effected as cutting progresses.
8. FIRE PRECAUTIONS: The purchaser and his/her employees shall do all in their power to prevent and suppress forest fires.
9. SURVEY CORNERS: The purchaser shall protect all known land survey monuments, and their witness trees from damage or obliteration. If such corners are destroyed, the purchaser shall pay the costs of restoration.
10. DEBRIS AND WASTE MATERIAL: The purchaser will maintain the work area in a clean and orderly condition and at the termination of the sale remove all equipment, material and debris that was brought onto the sale area as part of the operation. No petroleum products or other chemicals are to be disposed of on State land.
11. LIQUIDATED DAMAGES: (A) Liquidated damages for any undesignated live trees which are cut or injured through carelessness or negligence shall be paid for at double the price specified on this contract. If the price is not specified on this contract, it shall be paid at double the average price received on the forest for that species, product, and grade. Such payment shall not release the purchaser from liability to the State of Michigan for damage other than the value of said trees. (B) Work may be suspended or the contract canceled by the Area Forest Manager if any of the contract conditions and requirements are disregarded. All money paid under this contract and all the timber or forest products remaining on the area at the time of termination may be retained by the State to satisfy the purchaser's obligation hereunder.
12. PERFORMANCE BOND: As guarantee of faithful performance of the conditions of this contract, the purchaser delivers herewith a cash bond, surety bond or irrevocable letter of credit in the sum indicated within this contract. As soon as security for the performance of the terms of this contract or the settlement of claims incident thereto is no longer necessary, cash bonds will be returned or surety bonds and irrevocable letter of credit be released, subject to the conditions set forth in the sentence immediately following. The purchaser agrees that all monies deposited under this agreement may, upon failure on his/her part to fulfill all the requirements herein set forth or made a part hereof, be retained by the State of Michigan to be applied toward the satisfaction of his/her obligations assumed hereunder, without prejudice whatever to any rights and remedies of the State of Michigan.
13. LIABILITY: The purchaser agrees to absolve the Department of Natural Resources, its officers and employees of any personal injury or property damage resulting from operations under this contract. This shall not apply to any injuries or damages to persons or property arising out of or attributable to the sole negligence or other sole tortious wrong of the State of Michigan, its officers or employees.
14. WORKER'S COMPENSATION: Purchaser must comply with the requirement of the Workers Disability Compensation Act 317, P.A. 1969 and Act 178, P.A. 1935. If the purchaser is required to be insured by these acts, proof of insurance must be provided to the Department of Natural Resources. The purchaser agrees to provide notification 15 days prior to cancellation or changes in coverage of said policy.
15. NON-DISCRIMINATION CLAUSE: The Purchaser and all subcontracts must comply with the Michigan Civil Rights Act, P.A. 453, 1976 and the Michigan Handicapper Rights Act, P.A. 220, 1976.

# TIMBER SALE CONTRACT SUPPLEMENT

(Sale Type: 1 = Public; 2 = Local)

Required under authority of Act 126, P.A. 1939, as amended.  
Violation of the provisions of the Act and/or conditions of the  
contract may result in cancellation of the contract and fines.

|                             |        |      |      |
|-----------------------------|--------|------|------|
| SALE                        | NUMBER | YEAR | TYPE |
|                             | 099    | 90   | 01   |
| DATE ISSUED: MONTH DAY YEAR |        |      |      |
| 07/28/1992                  |        |      |      |
| EXPIRATION MONTH DAY YEAR   |        |      |      |
| DATE 07/27/1995             |        |      |      |
| EXTENDED TO MONTH DAY YEAR  |        |      |      |
| 07/27/1996                  |        |      |      |
| EXTENDED TO MONTH DAY YEAR  |        |      |      |
| EXTENDED TO MONTH DAY YEAR  |        |      |      |
| EXTENDED TO MONTH DAY YEAR  |        |      |      |
| EXTENDED TO MONTH DAY YEAR  |        |      |      |

STATE FOREST AND FOREST AREA  
KALKASKA FOREST AREA

CODE  
62

PURCHASER  
HUSSAIN

NEMAH

The above indicated Timber Sale Contract is hereby amended. Conditions and specifications of the original Timber Sale Contract which are in conflict with the terms of this supplement are null and void. The terms of this supplement shall hereby become a part of the original Timber Sale Contract and will in no way affect the conditions, terms, and specifications of the original Timber Sale Contract that are not revised by this amendment. This Timber Sale Contract is amended in the following respects:

- ☐ Modification ☒ Extension Fee % 5.0
- ☐ Adjustment Amount \$ ☒ Additional Fee \$ 500.00

EXPLANATION:

Pursuant to this mutual agreement, the purchaser agrees to cut timber in strict accordance with all and singular terms and provisions of the aforesaid contract as herein modified.

AREA FOREST MANAGER SIGNATURE

DATE

PURCHASER SIGNATURE

DATE

Approval of District, Region, and Lansing is required when requesting extensions without penalty. Only Information copy is required when extensions are made according to the policy.

PLEASE CHECK ONE:

- ☐ Information Copy ☐ Request for Approval

DISTRICT OFFICE ACTION:

- ☐ Amendment Approved ☐ Amendment Disapproved

By:

DATE

REGIONAL OFFICE ACTION:

- ☐ Amendment Approved ☐ Amendment Disapproved

By:

DATE

DIVISION OFFICE ACTION:

- ☐ Amendment Approved ☐ Amendment Disapproved

By:

DATE

RECEIPT #62000001

STATE OF MICHIGAN  
DEPARTMENT OF NATURAL RESOURCES  
OFFICIAL RECEIPT

| DESCRIPTION OF PURPOSE                                     | SPECIES                              | PRODUCT                                                  | UNIT                                                  | RATE                                                          | QUANTITY        | VALUE           |
|------------------------------------------------------------|--------------------------------------|----------------------------------------------------------|-------------------------------------------------------|---------------------------------------------------------------|-----------------|-----------------|
|                                                            |                                      |                                                          |                                                       |                                                               |                 |                 |
|                                                            |                                      |                                                          |                                                       |                                                               |                 |                 |
|                                                            |                                      |                                                          |                                                       |                                                               |                 |                 |
|                                                            |                                      |                                                          |                                                       |                                                               |                 |                 |
|                                                            |                                      |                                                          |                                                       |                                                               |                 |                 |
|                                                            |                                      |                                                          |                                                       |                                                               |                 |                 |
|                                                            |                                      |                                                          |                                                       |                                                               |                 |                 |
|                                                            |                                      |                                                          |                                                       |                                                               |                 |                 |
|                                                            |                                      |                                                          |                                                       |                                                               |                 |                 |
|                                                            |                                      |                                                          |                                                       |                                                               |                 |                 |
| RECEIVED FROM                                              | NAME<br>ADDRESS<br><br>CITY<br>STATE | HUSSAIN<br>2408 SOWER BLVD<br><br>OREMOS<br>MI ZIP 48864 | NEMAH                                                 | ACCOUNT NO. & COST CENTER                                     | TOTAL \$        | 3980.00         |
|                                                            |                                      |                                                          |                                                       | Division & Name of Unit<br>FOREST MGMT - KALKASKA FOREST AREA | AREA CODE<br>62 |                 |
| RECEIVED BY (Authorized signature)                         |                                      |                                                          | TRANSACTION NO.                                       | TYPE                                                          | PAYMENT UNITS   |                 |
|                                                            |                                      |                                                          | 62-099-90-01                                          | 14                                                            |                 |                 |
| Required Under Authority of Act 17, P.A. 1921, as amended. |                                      |                                                          | DATE OF RECEIPT<br>Mo/Day/Yr                          | COUNTY<br>NAME                                                | COUNTY<br>CODE  |                 |
| Copy to: Payee, Admn. Serv., Lansing, Issuing Unit         |                                      |                                                          | 07/30/1992                                            | WEXFORD                                                       | 83              |                 |
| RECEIPT DESCRIPTION<br>EXTENSION FEE                       |                                      |                                                          | PAYEE SOCIAL SECURITY OR FEDERAL I.D. NO<br>522785159 |                                                               |                 | REVISED<br>3/91 |

TMBSALE 07/30/1992 09:37

**TIMBER SALE CONTRACT SUPPLEMENT**

Required under authority of Act 126, P.A. 1939, as amended.  
Violation of the provisions of the Act and/or conditions of the  
contract may result in cancellation of the contract and fines.

(Sale Type: 1 = Public; 2 = Local)

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                                              |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------------------------------------------|
| STATE FOREST AND FOREST AREA<br>KALKASKA FOREST AREA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | CODE<br>62 | DATE ISSUED: MONTH DAY YEAR<br>07/30/1992    |
| PURCHASER<br>HUSSAIN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | NEMAH      | EXPIRATION DATE MONTH DAY YEAR<br>07/29/1994 |
| <p>The above indicated Timber Sale Contract is hereby amended. Conditions and specifications of the original Timber Sale Contract which are in conflict with the terms of this supplement are null and void. The terms of this supplement shall hereby become a part of the original Timber Sale Contract and will in no way affect the conditions, terms, and specifications of the original Timber Sale Contract that are not revised by this amendment. This Timber Sale Contract is amended in the following respects:</p> <div style="display: flex; justify-content: space-between;"><div><input type="checkbox"/> Modification</div><div><input checked="" type="checkbox"/> Extension Fee % 5.0</div></div> <div style="display: flex; justify-content: space-between;"><div><input type="checkbox"/> Adjustment Amount \$</div><div><input checked="" type="checkbox"/> Additional Fee \$ 3980.00</div></div> <p>EXPLANATION:<br/>EXTENSION FEE</p>                                                                                                                                                                                                                                                                                                |            | EXTENDED TO MONTH DAY YEAR<br>07/29/1995     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | EXTENDED TO MONTH DAY YEAR                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | EXTENDED TO MONTH DAY YEAR                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | EXTENDED TO MONTH DAY YEAR                   |
| <p>Insuant to this mutual agreement, the purchaser agrees to cut timber in strict accordance with all and singular terms and provisions of the aforesaid contract as herein modified.</p> <div style="display: flex; justify-content: space-between;"><div>_____<br/>AREA FOREST MANAGER SIGNATURE</div><div>_____<br/>DATE</div></div> <div style="display: flex; justify-content: space-between;"><div>_____<br/>PURCHASER SIGNATURE</div><div>_____<br/>DATE</div></div> <p>Approval of District, Region, and Lansing is required when requesting extensions without penalty. Only Information copy is required when extensions are made according to the policy.</p> <p>PLEASE CHECK ONE: <input type="checkbox"/> Information Copy <input type="checkbox"/> Request for Approval</p> <p>DISTRICT OFFICE ACTION: <input type="checkbox"/> Amendment Approved <input type="checkbox"/> Amendment Disapproved</p> <p>By: _____ DATE _____</p> <p>REGIONAL OFFICE ACTION: <input type="checkbox"/> Amendment Approved <input type="checkbox"/> Amendment Disapproved</p> <p>By: _____ DATE _____</p> <p>DIVISION OFFICE ACTION: <input type="checkbox"/> Amendment Approved <input type="checkbox"/> Amendment Disapproved</p> <p>By: _____ DATE _____</p> |            |                                              |



**STATE OF MICHIGAN  
DEPARTMENT OF NATURAL RESOURCES  
FOREST MANAGEMENT DIVISION**

**ASSIGNMENT OF TIMBER CONTRACT**

Required under authority of Act 126, P.A. 1939, as amended. Violation of the provisions of the Act and/or conditions of the contract may result in cancellation of the contract and fines.

BY MUTUAL AGREEMENT OF ALL PARTIES INVOLVED:

|                                                |                  |                                         |
|------------------------------------------------|------------------|-----------------------------------------|
| PURCHASER (LAST, FIRST, MIDDLE)<br>HUSSAIN     | NEMAH            | SOC. SEC. OR FED. I.D. NO.<br>522785159 |
| ADDRESS (NUMBER AND STREET)<br>2408 SOWER BLVD | (CITY)<br>OKEMOS | (STATE) (ZIP CODE)<br>MI 48864          |

|                                                       |                         |                                 |                                                          |                                        |                          |                              |  |
|-------------------------------------------------------|-------------------------|---------------------------------|----------------------------------------------------------|----------------------------------------|--------------------------|------------------------------|--|
| FINAL STATUS<br>1=Complete;<br>2=Closed; 3=Cancelled. | CODE<br>4               | DATE<br>MO DAY YEAR<br>07 30 92 | BOND TYPE<br>1=Cash; 2=Surety;<br>3=LOC; 4=Cert. of Dep. | CODE<br>1                              | AMOUNT<br>\$3,980.00     |                              |  |
| DISPOSITION OF BOND                                   | 1. REFUND<br>\$3,980.00 | 2. CREDIT TO TIMBER<br>\$0.00   | 3. FORFEIT<br>\$0.00                                     | 4. HOLD FOR FUTURE CONTRACTS<br>\$0.00 | BOND NUMBER<br>522785159 | DATE<br>MO DY YR<br>07 30 92 |  |

HEREBY ASSIGNS ALL RIGHTS ENTERED INTO WITH THE STATE OF MICHIGAN UNDER TIMBER

|             |            |            |                                     |            |                               |
|-------------|------------|------------|-------------------------------------|------------|-------------------------------|
| FILE#<br>09 | YEAR<br>90 | TYPE<br>01 | FOREST AREA<br>KALKASKA FOREST AREA | CODE<br>62 | SALE NAME<br>TRAIL HEAD ASPEN |
|-------------|------------|------------|-------------------------------------|------------|-------------------------------|

TO:

|                                                |                   |                                         |
|------------------------------------------------|-------------------|-----------------------------------------|
| PURCHASER (LAST, FIRST, MIDDLE)<br>DOE         | JOHN              | SOC. SEC. OR FED. I.D. NO.<br>522785158 |
| ADDRESS (NUMBER AND STREET)<br>1234 LANSING ST | (CITY)<br>LANSING | (STATE) (ZIP CODE)<br>MI 48909          |

|                                                          |           |                      |                          |                              |
|----------------------------------------------------------|-----------|----------------------|--------------------------|------------------------------|
| BOND TYPE<br>1=Cash; 2=Surety;<br>3=LOC; 4=Cert. of Dep. | CODE<br>2 | AMOUNT<br>\$3,980.00 | BOND NUMBER<br>522785158 | DATE<br>MO DY YR<br>07 30 92 |
|----------------------------------------------------------|-----------|----------------------|--------------------------|------------------------------|

THIS ASSIGNMENT PLACES ALL RESPONSIBILITY FOR SATISFACTORY PERFORMANCE OF THE REQUIREMENTS OF THE CONTRACT TO THE NEW PURCHASER.

BY: \_\_\_\_\_ Date \_\_\_\_\_  
Original Purchaser

BY: \_\_\_\_\_ Date \_\_\_\_\_  
New Purchaser

\_\_\_\_\_ Date \_\_\_\_\_  
Area Forest Manager

RECEIPT #62000001

STATE OF MICHIGAN  
DEPARTMENT OF NATURAL RESOURCES  
OFFICIAL RECEIPT

[illegible]

TMBSALE 07/30/1992 09:07

TED  
Command

Tom Kihlken  
1988 No. 19 (Utilities)

**Purpose:** A small, full-screen editor for line-oriented files of up to 64K in length that supports scrolling, cut, copy, paste, and printing operations, and permits entry of all members of the IBM character set.

**Format:** TED [filespec]

**Remarks:** TED will open and read a file whose name (and path, if required) are supplied initially. If no filespec is provided it will open a new file and prompt for a filename when the Save and Exit command (F7) is given. The original of a modified file is saved with a .BAK extension. The Abort command (F1), when verified, abandons any modifications and leaves the original file intact.

Lines may be of any length, and each must be terminated by pressing Enter. Lines longer than the screen width display a diamond in the rightmost column. Offscreen characters (up to 248 columns) may be viewed by using the Ctrl-⟲ keys. Lines may be broken by pressing Enter at any point, and may be conflated by pressing Delete at the line end.

A block of text is defined by toggling on the Mark command (F4) and moving the cursor with the arrow keys. The Marked area is shown in inverse video. Pressing F3 prints the blocked text; F5 (Cut) removes it to a buffer from which it can be Pasted (F6) at any point where the cursor is located. The paste buffer remains intact until another section is marked and cut.

Pressing F8 deletes to the end of a line; F9 deletes the entire line. F10 restores the most recent deletion of F8 or F9. The Undo command (F2) restores letters deleted by the Delete (but not by the Backspace) key if the cursor has not been moved.

The Home and End keys move the cursor to the beginning and end of the current screen line; the Tab key moves to the next column evenly divisible by eight. Text is entered in Insert mode by default; pressing the Insert key toggles to overstrike mode. TED configures itself to the display in use and supports EGA and VGA text modes other than the standard 80 columns by 25 rows. PgUp and PgDn scroll the file by the number of rows displayed, minus 5. Ctrl-PgUp and Ctrl-PgDn move to the top and bottom of the file.

Any character in the IBM set can be entered by pressing the Alt key, typing its ASCII value on the numeric keypad, then releasing the Alt key.

## MARKING TALLY DATA FORM

**CRUISER** \_\_\_\_\_

Compartment \_\_\_\_\_ Stand \_\_\_\_\_ Stratum \_\_\_\_\_ % Cruised \_\_\_\_\_ Top D.B. \_\_\_\_\_ Acres \_\_\_\_\_

[illegible][illegible]

## CUMULATIVE METHOD DATA TALLY FORM

**CRUISER** \_\_\_\_\_[illegible][illegible]

## V-BAR DATA TALLY FORM

**CRUISER** \_\_\_\_\_

Compartment \_\_\_\_\_ Stand \_\_\_\_\_ Stratum \_\_\_\_\_ Acres \_\_\_\_\_ Log Rule \_\_\_\_\_ BAF \_\_\_\_\_

[illegible]

**From:** Mark Anderson  
**To:** Douglas Heym  
**Date:** Mon, Mar 5, 2001 2:02 PM  
**Subject:** Penalty Receipts

Doug,

I receipted a penalty receipt to a sale where all money has been received on a sale. Then I attempted to create a completion report. It would not let me as the amount received (including the penalty) and current contract amount (original contract value + amendment amounts) did not match.

I then defined an amendment for the amount of the penalty as an adjustment amount. Once this was done, I was able to create the completion report.

Looks like they will have to create an amendment for the 400 dollars, then receipt the 400 dollars as a penalty receipt for 400 dollars.